



CATALOG NO.
CA0010
1997



***Replacement Parts
for Caterpillar® Engines***
PARTS CATALOG

Get Your Power

Marine



Construction

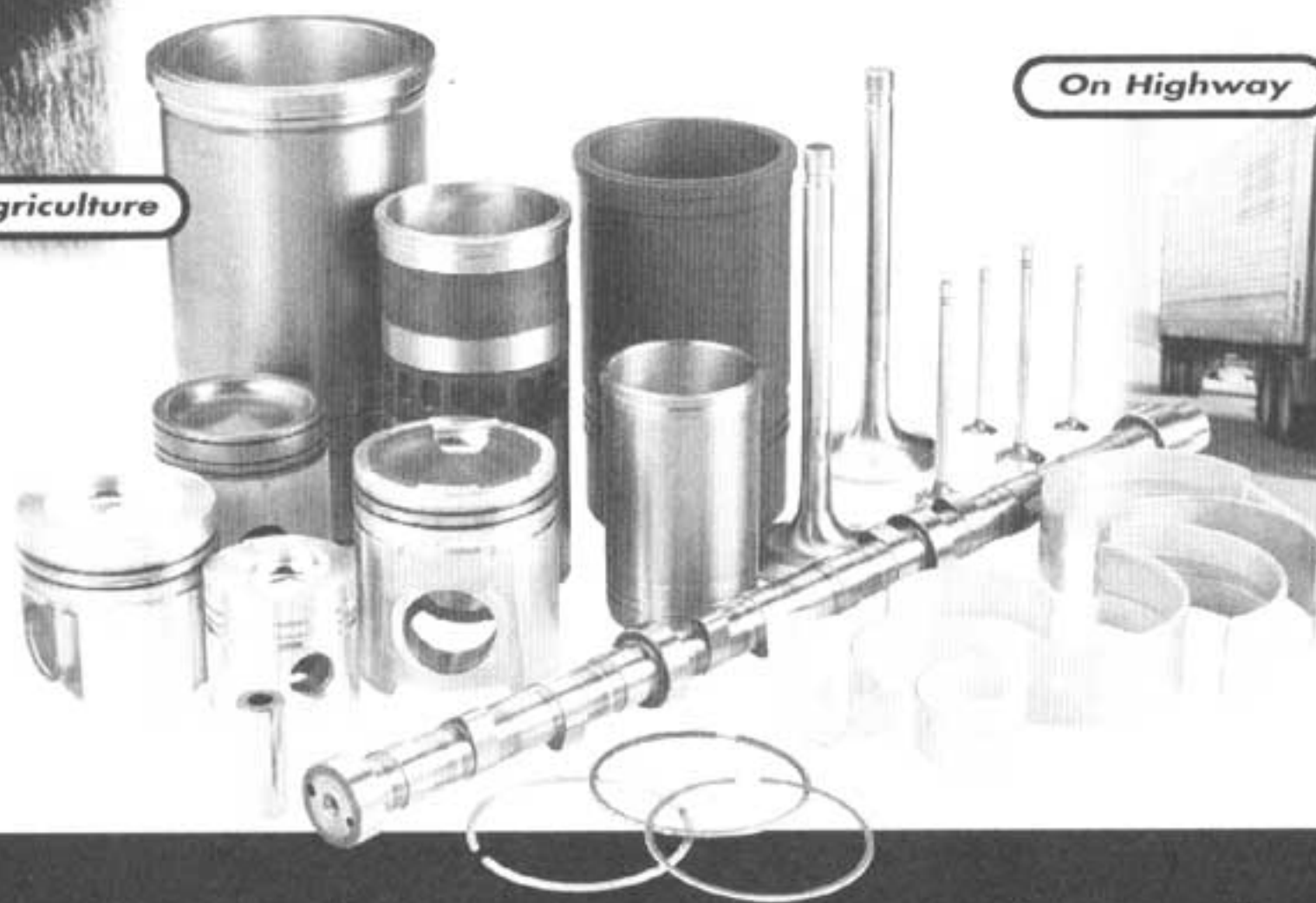


from the Source!

Agriculture



On Highway



**FP
DIESEL**

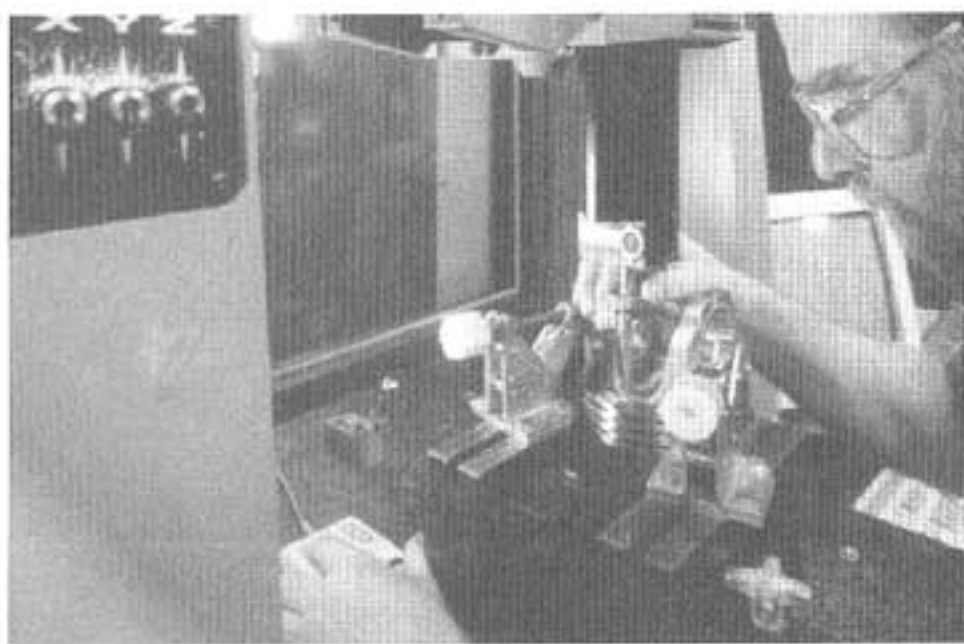
ENGINE SYSTEMS™

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	CAMSHAFTS, CRANKSHAFTS, FRONT & REAR SEALS, DAMPERS, CYLINDER HEADS, CONNECTING RODS, SPECIAL GASKETS, FUEL SETS, O-RING SETS, OIL PAN SETS, CHEMICALS, CYLINDER LINER O-RING KITS, IN-FRAME ENGINE KITS, GAUGES, THERMOSTATS, WATER PUMPS, REPAIR KITS & COMPONENTS, OIL COOLER CORES, OIL PUMP GROUP, ELECTRICAL SECTION, STARTERS, ALTERNATORS ETC.....	
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Engineered to Exceed Your Expectations. And Our Own.

Any high-horsepower engine, regardless of age, represents a brutal operating environment for pistons, rings, bearings, liners and other internal components. Yet not nearly as demanding as the engine durability and performance labs at Federal-Mogul Corporation's **advanced technology centers** in Brockenhurst, England, Burscheid and Nuremberg, Germany, and Ann Arbor, Michigan.



In fact, compared to the punishment we dish out to each new **FP Diesel technology**, real-world operating conditions are almost a walk in the park.

Hydraulic overload analysis designed to isolate potential weaknesses in material formulation and component architecture. Thermal abuse research easily exceeding the requirements of today's — and tomorrow's — most demanding applications. Thousands of hours of operation at peak horsepower

and maximum torque within the largest and most sophisticated engine dynamometers serving the original equipment and replacement parts industries.

Each day our best engineers try to destroy FP Diesel engine components...so our customers never will.

As the **global leader in heavy-duty powertrain systems**, Federal-Mogul is instrumental in the development of every new generation of gasoline and diesel engine technology. Advanced-design articulated and Monosteel™ pistons for on- and off-highway engines. Space-age ring coatings to resist the corrosion and abrasion associated with EGR and other engine emissions solutions. New materials and manufacturing processes resulting in thinner, stronger cylinder liners that allow customers to maximize bore size.

When you choose FP Diesel, you receive much more than premium-quality engine parts. Each component is the product of the industry's very best ideas — powertrain technologies that won't merely survive, but thrive in today's hardest-working engines. That's the exclusive **performance advantage** designed, tested and built into every FP Diesel product...for every engine repair.



ENGINE SYSTEMS™

SECTION 1

CYLINDER COMPONENTS

Liner Kits

Consists of: Piston, Ring Set, Pin, Retainers,
Filler Band, O-Rings & Liners.

Piston Kits

Consists of: Piston, Pin, Retainer and Ring Set.

Machine Section.....	2
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Note: If unable to locate your machine, refer to Section 6, Page 143 for Machine Serial Number to Engine Model & Serial Number then refer to the appropriate engine section for line number required.

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D3						
3204 4 CYL	6N1	6N885	45V1	45V17159	4N0169, 4N0303	5
3204 4 CYL	79U1	79U4688	45V1	45V17159	4N0169	5
3204 4 CYL	82U1	82U930	45V1	45V17159	4N0169	5
3204 4 CYL	83U1	83U777	45V1	45V17159	4N0169	5
3204 4 CYL	6N886	UP	45V17160	UP	7N3800	7
3204 4 CYL	79U4689	UP	45V17160	UP	7N3800	7
3204 4 CYL	82U1	82U931	45V17160	UP	7N3800	7
3204 4 CYL	83U1	83U778	45V17160	UP	7N3800	7
D3B						
3204 4 CYL	23Y1	UP	45V17160	UP	7N5139	7
3204 4 CYL	24Y1	UP	45V17160	UP	7N5139	7
3204 4 CYL	27Y1	UP	45V17160	UP	7N5139	7
3204 4 CYL	28Y1	UP	45V17160	UP	7N5139	7
D4						
D315 4 CYL	29A1	29A116				3
D315 4 CYL	30A1	30A215				3
D315 4 CYL	6U1	6U12781				3
D315 4 CYL	7U1	7U44307				3
D4C						
D330 4 CYL	24A1	24A1274				4
D330 4 CYL	39A1	39A581				4
D330 4 CYL	40A1	40A5253				4
D330 4 CYL	54A1	54A124				4
D330 4 CYL	55A1	55A312				4
D330 4 CYL	69A1	UP				4
D4D						
D330 4 CYL	67A1	UP				4
D330 4 CYL	78A1	UP				4
D330 4 CYL	85A1	UP				4
D330 4 CYL	86A1	86A2911				4
D330 4 CYL	88A1	88A918				4
D330 4 CYL	91A1	91A793				4
D330 4 CYL	22C1	UP				4
D330 4 CYL	97F1	UP				4
3304 4 CYL	44H1	44H759	48V1		6A4515/6, 6A7360/1	18
3304 4 CYL	44H760	44H1121	48V1	48V10544	6A5462, 6A6501	19
3304 4 CYL	44H1122	UP	48V10545	48V12847	6A7358/9, 6A7362	19
3304 4 CYL	47H1	UP	43V1	UP	2P6775/6/8/82/87	18
D330 4 CYL	18J1	18J292				4
D330 4 CYL	20J1	UP				4
D330 4 CYL	49J1	UP				4
D330 4 CYL	58J1	UP				4
3304 4 CYL	59J1	59J387			8A2321	19
3304 4 CYL	59J388	59J1280	6A3021			19
3304 4 CYL	59J1281	59J1765	48V1	48V10235	2P6775, 6A5543	18
3304 4 CYL	59J1766	59J1866	48V10236	48V12847	6A7357	18
3304 4 CYL	59J1867	UP	48V12848	UP	6A7357, 5C1593	18
3304 4 CYL	60J1	60J3269			8A2320	19

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D4D						
3304 4 CYL	60J3270	60J4065	48V1	48V10312	2P6778,6A5542	19
3304 4 CYL	60J4066	60J4375	48V10313	48V12926	6A7356	19
3304 4 CYL	60J4376	UP	48V12927	UP	6A7356, 5C1594	19
3304 4 CYL	61J1	61J517			8A2320	19
3304 4 CYL	61J518	61J641	48V1	48V10312	2P6778, 6A5542	19
3304 4 CYL	61J642	61J679	48V10313	48V12926	6A7356	19
3304 4 CYL	61J680	UP	48V12927	UP	6A7356, 5C1594	19
3304 4 CYL	65J1	UP	43V1	UP		18
3304 4 CYL	66J1	UP	43V1	UP		18
3304 4 CYL	82J1	82J3443	78P1	UP		18
3304 4 CYL	82J3444	82J3650	78P1	78P5187	2P6778, 6A5542	18
3304 4 CYL	82J3651	UP	78P5188	UP	4N3803	18
3304 4 CYL	83J1	83J2176			5S3816	18
3304 4 CYL	83J2177	83J2564	78P1	78P5247	2P6775, 6A5543	18
3304 4 CYL	83J2565	UP	78P5248	UP	4N3799	18
3304 4 CYL	84J1	84J1524	78P1	UP	7S4977	18
3304 4 CYL	84J1525	84J1612	78P1	78P5151	2P6781, 6A5544	18
3304 4 CYL	84J1613	UP	78P18799	UP	4N3806	18
3304 4 CYL	7R1	7R507	48V1	UP	6A3021	18
3304 4 CYL	7R508	7R723	48V1	48V10235	2P6775, 6A5543	18
3304 4 CYL	7R724	7R758	48V10236	48V12847	6A7357	18
3304 4 CYL	7R759	UP	48V12848	UP	6A7357,5C1593	18
3304 4 CYL	74U1	UP	46V1	UP	2Y2007,2Y2415,2Y4000	18
D4E						
3304 4 CYL	76W1	UP	46V1	UP		18
3304 4 CYL	77W1	UP	46V1	UP		18
3304 4 CYL	27X1	27X592	78P1	78P40899	7N2301	18
3304 4 CYL	27X593	UP	78P40900	UP	7N1517	18
3304 4 CYL	27X1036	UP	7Z245	UP	8N3073	21
3304 4 CYL	28X1	28X885	78P1	78P40899	4N3799	18
3304 4 CYL	28X886	UP	78P40900	UP	7N1516	18
3304 4 CYL	28X1940	UP	7Z238	UP	8N3071	21
3304 4 CYL	29X1	29X503	78P1	78P40899	7N2300	18
3304 4 CYL	29X504	UP	78P40900	UP	7N1520	18
3304 4 CYL	29X759	UP	7Z242	UP	8N3075	21
3304 4 CYL	50X1	UP	43V1	UP		18
3304 4 CYL	68X1	UP	48V1	UP	5C5463	18
3304 4 CYL	69X1	UP	48V34083	UP	6A7357	18
3304 4 CYL	70X1	UP	48V1	UP	5C5462	19
3304 4 CYL	71X1	UP	48V1	UP	5C5463	18
3304 4 CYL	72X1	UP	48V34083	UP	6A7357	18
D5						
D333 6 CYL	98A1	UP				4
D333 6 CYL	81H1	UP				4
D333 6 CYL	82H1	UP				4
D333 6 CYL	88H1	UP				4
D333 6 CYL	84H1	UP				4
D333 6 CYL	21J1	UP				4

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
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D5						
3306 6 CYL	54J1	UP				19
3306 6 CYL	62J1	62J654	49V1	UP	6A3023	19
3306 6 CYL	62J855	62J956	49V1	49V6143	2P6788, 6A547	19
3306 6 CYL	62J957	UP	49V6144	49V9668	6A9728, 5C1719	19
3306 6 CYL	63J1	63J953	49V1	UP	6A3024	19
3306 6 CYL	63J954	63J1511	49V1	49V6263	2P6789, 6A5548	19
3306 6 CYL	63J1512	UP	49V6264	49V9668	6A9729, 5C1720	19
3306 6 CYL	67J1	UP	44V1	UP		19
3306 6 CYL	68J1	UP	44V1	UP		19
3306 6 CYL	93J1	93J731	3N1	UP	5S3817	18
3306 6 CYL	93J732	93J850	3N1	3N21603	2P6788, 6A547	18
3306 6 CYL	93J851	UP	3N21604	UP	4N7361, 4N8132	18
3306 6 CYL	94J1	94J1952	3N1	UP	5S3817	18
3306 6 CYL	94J1953	94J2281	3N1	3N21603	2P6788, 6A547	18
3306 6 CYL	94J2282	UP	3N21604	UP	4N7361, 4N8132	18
3306 6 CYL	95J1	95J356			7S1782	18
3306 6 CYL	95J357	95J397	3N1	3N21588	2P6789, 6A5548	18
3306 6 CYL	95J398	UP	3N21589	UP	4N7363	18
3306 6 CYL	96J1	96J3587			7S1782	18
3306 6 CYL	96J3588	96J4790	3N1	3N21588	2P6789, 6A5548	18
3306 6 CYL	96J4791	UP	3N21589	UP	4N7363	18
3306 6 CYL	97J1	UP				18
3306 6 CYL	98J1	98J1133			7S4452	18
3306 6 CYL	98J1134	98J1458	3N1	3N22865	2P6793	18
3306 6 CYL	98J1459	UP	3N22866	UP	4N7364, 1P0032	18
3306 6 CYL	6R1	6R596			6A3024	18
3306 6 CYL	6R597	6R870	49V1	49V6263	6A5548	18
3306 6 CYL	6R871	UP	49V6264	UP	6A9729, 5C1720	18
3306 6 CYL	12R1	12R171			6A3023	18
3306 6 CYL	12R172	12R238	49V1	49V8098	2P6788, 6A5547	18
3306 6 CYL	12R239	UP	49V1	49V9668	5C1447	18
D5B						
3306 6 CYL	22X1	22X326	3N1	3N69599	6N8257	18
3306 6 CYL	22X327	UP	3N69600	UP	7N1529	18
3306 6 CYL	22X521	UP	8Z446	UP	7N4978	21
3306 6 CYL	23X1	23X442	3N1	3N69599	6N8257	18
3306 6 CYL	23X443	UP	3N69600	UP	7N1529	18
3306 6 CYL	23X830	UP	8Z446	UP	7N4978	21
3306 6 CYL	24X1	24X346	3N1	3N69599	6N7715	18
3306 6 CYL	24X347	UP	3N69600	UP	7N1529	18
3306 6 CYL	24X486	UP	8Z446	UP	7N4978	21
3306 6 CYL	25X1	25X767	3N1	3N69599	6N7715	18
3306 6 CYL	25X768	UP	3N69600	UP	7N1530	18
3306 6 CYL	25X2067	UP	8Z445	UP	7N4980	21
3306 6 CYL	26X1	26X553	3N1	3N69599	6N7717	18
3306 6 CYL	26X554	UP	3N69600	UP	7N1531	18
3306 6 CYL	28X957	UP	3N55880	UP		21

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D6						
D318 6 CYL	31A1	31A222				3
D318 6 CYL	32A1	32A177				3
D318 6 CYL	8U4512	8U11045				3
D318 6 CYL	9U7608	9U29764				3
D6B						
D333 6 CYL	37A1	UP				4
D333 6 CYL	44A1	UP				4
D333 6 CYL	56A1	UP				4
D333 6 CYL	57A1	UP				4
D333 6 CYL	37H1	37H748				4
D333 6 CYL	38H1	38H751				4
D6C						
D333 6 CYL	74A1	UP				4
D333 6 CYL	76A1	UP				4
D333 6 CYL	82A1	82A307				4
D333 6 CYL	83A1	83A232				4
D333 6 CYL	96A1	UP				4
3306 6 CYL	90B1	UP	44V1	UP	2P8794, 2P6800	19
3306 6 CYL	46J1	46J370	49V1	UP	7S4456	19
3306 6 CYL	46J371	46J662	49V1	UP	6A3091	19
3306 6 CYL	46J664	46J868	49V1	UP	6A3673	19
3306 6 CYL	46J869	46J1263	49V1	49V6958	6A5549	19
3306 6 CYL	46J1264	UP	49V1	UP	6A9730	19
3306 6 CYL	47J1	47J812	49V1	UP	7S4458	19
3306 6 CYL	47J813	47J1687	49V1	UP	6A3092	19
3306 6 CYL	47J1688	47J2559	49V1	UP	6A4674	19
3306 6 CYL	47J2560	47J4138	49V1	49V6137	6A5550	19
3306 6 CYL	47J4139	UP	49V6138	UP	6A9731	19
3306 6 CYL	55J1	UP				19
3306 6 CYL	56J1	UP				19
3306 6 CYL	69J2005	UP	44V22	UP	2P1441, 4N7365	19
3306 6 CYL	99J1	99J1550	3N1	UP	7S4456	19
3306 6 CYL	99J1551	99J1753	3N1	UP	2P1442	19
3306 6 CYL	99J1754	99J2166	3N1	3N19061	2P8794, 2P6800	19
3306 6 CYL	99J2167	UP	3N19062	3N24132	4N5359	19
3306 6 CYL	10K1	10K5983			7S4458	19
3306 6 CYL	10K7953	10K10055	3N1	3N19115	2P6795	19
3306 6 CYL	10K10056	UP	3N19116	3N24132	4N7365	19
3306 6 CYL	26K794	UP				19
3306 6 CYL	17R1	17R464			1P2693	19
3306 6 CYL	17R465	17R726	3N1	3N19115	2P6803	19
3306 6 CYL	17R727	UP	3N19156	3N24132	4N7372	19
3306 6 CYL	23U169U1	UP				19
3306 6 CYL	69U1	69U315			4N7372	19
3306 6 CYL	69U316	69U441	3N1	3N18947	4N6521	19
3306 6 CYL	69U442	UP	3N18948	3N24132	4N7366	19

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D6D						
3306 6 CYL	74W1	UP				19
3306 6 CYL	75W1	UP				19
3306 6 CYL	3X1	3X633	3N1	3N69599	4N5359	19
3306 6 CYL	3X634	UP	3N69600	UP	7N1534	19
3306 6 CYL	3X1102	UP	8Z1848	UP		21
3306 6 CYL	4X1	4X2843	3N1	3N69599	7N2505	19
3306 6 CYL	4X2844	UP	3N69600	UP	7N1539	19
3306 6 CYL	4X7717	UP	8Z1827	UP		21
3306 6 CYL	5X1	5X542	3N1	3N69599	4N7372	19
3306 6 CYL	5X543	UP	3N69600	UP	7N1541	19
3306 6 CYL	5X966	UP	8Z1842	UP	8N3169	21
3306 6 CYL	6X1	6X514	3N1	3N69599	7N2504	19
3306 6 CYL	6X515	UP	3N69600	3N82448	7N1535	19
3306 6 CYL	6X515	UP	3N82449	UP	7N1539	19
3306 6 CYL	6X1314	UP	8Z1827	UP		21
3306 6 CYL	19X1	UP	13Z1	13Z99999		19
3306 6 CYL	20X1	UP	13Z1	13Z99999		19
3306 6 CYL	30X1	UP				19
3306 6 CYL	31X1	UP				19
D7C						
D339 4 CYL	17A1	17A11980				40/41
D7D						
D339 4 CYL	17A11981	17A19442				40/41
D7E						
D339 4 CYL	47A1	UP				40/41
D339 4 CYL	48A1	UP				40/41
D339 4 CYL	79A1	UP				40/41
D339 4 CYL	95A1	UP				40/41
D339 4 CYL	75E1	UP				40/41
D7F						
3306 6 CYL	91E1	UP				16
3306 6 CYL	92E1	92E2671				16
3306 6 CYL	92E2671	UP				19
3306 6 CYL	61G1	UP				19
3306 6 CYL	93N1	93N1174			9S5765	19
3306 6 CYL	93N1175	93N1555	3N1	3N15868	2P6805	16
3306 6 CYL	93N1556	UP	3N15869	3N28252	6N0482	16
3306 6 CYL	94N1	94N5191			9S5767	19
3306 6 CYL	94N5192	94N7184	3N1	3N15868	2P6806	16
3306 6 CYL	94N7185	UP	3N15869	3N28252	6N0484	16
D7G						
3306 6 CYL	64V1	UP	44V1	UP		16
3306 6 CYL	65V1	UP	44V1	UP		16
3306 6 CYL	91V1	91V1325	3N1	3N69599	4N4559	16
3306 6 CYL	91V1326	UP	3N69600	UP	7N1551	16
3306 6 CYL	92V1	92V6136	3N1	3N69599	4N4506	16
3306 6 CYL	92V6137	UP	3N69600	UP	7N1552	16
3306 6 CYL	72W1	72W351	3N1	3N69599	4N4506	16

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D7G						
3308 6 CYL	72W352	UP	3N69600	UP	7N1552	16
D8						
D13000 6 CYL	13A1	UP				40/41
D8E-F						
D342 6 CYL	14A1	UP			4H5055	40/41
D8D-G						
D342 6 CYL	15A1	UP			4H9886	40/41
D8H						
D342 6 CYL	35A1	UP			8H4642	40/41
D342 6 CYL	36A1	36A3215			4H4541	40/41
D342 6 CYL	36A3216	36A4648			7M4540	40/41
D342 6 CYL	36A4649	36A5328			4S6928	40/41
D342 6 CYL	36A5329	36A5722			4S9511	40/41
D342 6 CYL	46A1	46A3043			1M1385	40/41
D342 6 CYL	46A3044	45A12884			7M4552	40/41
D342 6 CYL	46A12885	46A24432			4S6929	40/41
D342 6 CYL	46A24433	UP			4S9503	40/41
D342 6 CYL	68A1	UP				40/41
D8K						
D342 6 CYL	66V1	UP				40/41
D342 6 CYL	76V1	76V600	17S1	17S8943	4N4444	40/41
D342 6 CYL	76V601	UP	17S8944	UP	7N3490	40/41
D342 6 CYL	77V1	77V8528	17S1	17S8943	4N4445	40/41
D342 6 CYL	77V8535	UP	17S8944	UP	7N3491	40/41
D342 6 CYL	77V8535	UP	50V4900	UP	7N3491	40/41
D8L						
3408 8 CYL	53Y1	UP	48W13002	UP	7N2010	38
D8N						
3406 6 CYL	9TC1	UP	70V21758	70V99999	7N3516,4P1900	33
3406 6 CYL	9TC1	UP	11N1	UP	4P1900	33
3406 6 CYL	1XJ1	UP	70V24187	UP	4P1900,7N3512	33
D9G						
D353 6 CYL	66A1	66A9417			7M0307	42/43
D353 6 CYL	66A9418	66A12015	97U1	UP	8S3233	42/43
D353 6 CYL	66A12016	UP			8S3233	42/43
D353 6 CYL	90J1	90J92	97U1	UP	8S5384	42/43
D353 6 CYL	90J93	UP			9S7117	42/43
D353 6 CYL	91J1	91J92	97U1	UP	5S3997	42/43
D353 6 CYL	91J93	UP	97U1	UP	8S3239	42/43
D353 6 CYL	29N1	UP	97U1	UP	8S5384, 9S7117	42/43
D353 6 CYL	30N1	UP	97U3095	UP	5S3997, 8S3239	42/43
D9H						
D353 6 CYL	90V1	90V4939	97U1	97U7921	4N5998	42/43
D353 6 CYL	90V4940		97U7922	UP	7N3242	42/43
D353 6 CYL	97V1	97V193	97U1	97U7921	4N7590	42/43
D353 6 CYL	97V194	UP	97U7922	UP	7N3240	42/43

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	FROM:	TO:	FROM:	TO:		
D9H						
D353 6 CYL	98V1	98V193	97U1	97U7921	4N7592	42/43
D353 6 CYL	98V194	UP	97U7922	UP	7N3241	42/43
D353 6 CYL	99V1	99V139	97U1	97U7921	4N7590	42/43
D353 6 CYL	99V140	UP	97U7922	UP	7N3240	42/43
D353 6 CYL	12U1	12U139	97U1	UP	4N7592	42/43
D353 6 CYL	12U140	UP	97U1	UP	7N3241	42/43
D9L						
3412 12 CYL	14Y1	UP	73W1	UP	6N1348	37
D10						
D348 12 CYL	84W1	UP	98S1	UP	4N8927	27
D348 12 CYL	76X1	UP	98S1	UP	4N8927	27
D10N						
3412 12 CYL	2YD1	2YD99999	73W8338	73W99999	4P4990,7W2873,1007830,1016029, 1037416,1230204,1301248,1374987, 1375904,1379593,1381780	38
3412 12 CYL	3SK1	UP	73W14800	UP	4P4990,7W2873,1007830,1016029, 1037416,1230204,1301248,1374987, 1375904,1379593,1381780	38
12						
D318 6 CYL	80C1	80C1008				3
D318 6 CYL	94C1	UP				3
D318 6 CYL	70D1	70D4307				3
D318 6 CYL	71D1	71D742				3
D318 6 CYL	38E1	UP				3
D318 6 CYL	9K1	UP				3
D318 6 CYL	8T1	UP				3
12E						
D333 6 CYL	99E1	99E14170				4
D333 6 CYL	12F1	12F1105				4
D333 6 CYL	21F1	UP				4
12F						
3306 6 CYL	89H1	89H1537	3N1	UP	7S4468	18
3306 6 CYL	89H1538	UP	3N1	3N10245	2P6791	18
3306 6 CYL	13K1	13K3379	3N1	UP	7S4466	16
3306 6 CYL	13K3380	13K5286	3N1	UP	9S5777	16
3306 6 CYL	13K5287	UP	3N1	3N10245	2P6790	16
3306 6 CYL	17K1	17K1233	3N1	UP		18
3306 6 CYL	17K1234	UP	3N1	3N24132	2P6792	18
12G						
3306 6 CYL	61M1	61M5663	3N10245	3N35352	1P9587	18
3306 6 CYL	61M5664	UP	3N35353	3N79762	7N1532	18
3306 6 CYL	61M5664	UP	3N69600	UP	8N0193	18
3306 6 CYL	61M8644	UP	8Z1	UP	7N1188	21
14B						
D318 6 CYL	64C1	64C801				3
D318 6 CYL	78E1	78E127				3

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	FROM:	TO:	FROM:	TO:		
14C						
D333 6 CYL	35F1	35F1264				4
14D						
D333 6 CYL	96F1	96F1721				4
D333 6 CYL	96F1722	96F2072				4
14E						
D333 6 CYL	99G1	UP				4
3306 6 CYL	72G1	72G1340			7S4464	18
3306 6 CYL	72G1341	UP	3N1	UP	2P6798	19
3306 6 CYL	12K1	12K2198			7S4482	18
3306 6 CYL	12K2199	UP	3N1	UP	2P6799	19
14G						
3306 6 CYL	96U1	96U2975	3N1	UP	2P9637	19
3306 6 CYL	96U2976	UP	3N69600	UP	7N1542	19
3306 6 CYL	96U5201	UP	8Z1	UP	7N1211,7N8055	21
16						
D343 6 CYL	49G1	UP				26
16G						
3406 6 CYL	93U1	93U1178	70V1	70V4104		28/30
3406 6 CYL	93U1179	UP	70V4105	70V4662		34
3406 6 CYL	93U1179	UP	70V4663	70V8615		32
112						
D315 4 CYL	81C1	81C359				3
D315 4 CYL	3U1	UP				3
112E						
D330 4 CYL	68E1	68E1377				4
D330 4 CYL	91G1	UP				4
D330 4 CYL	72H1	UP				4
112F						
D330 4 CYL	46D1	UP				4
D330 4 CYL	82F1	82F775				4
D330 4 CYL	74H1	UP				4
D330 4 CYL	80J1	80J401			2P6775-2P6778,2P6780,2P6781,	18
3304 4 CYL	80J402	UP	78P1	UP	4N3799,4N3801-4N3803,4N3806,	18
3304 4 CYL	89J1	89J1895			4N3807,7N1515-7N1517,	18
3304 4 CYL	89J1896	UP	78P1	UP	7N1519-7N1522,7N2301	18
120						
D333 6 CYL	89G1	UP				4
D333 6 CYL	60H1	UP				4
3306 6 CYL	14K1	UP			7S4466	18
3306 6 CYL	35K1	UP				18
3306 6 CYL	10R1	10R2881			7S4466	18
3306 6 CYL	10R2882	UP	3N1	3N24132	4N4994	18
3306 6 CYL	22R1	22R979				18
3306 6 CYL	22R980	UP	3N1	3N24132	4N4994	18
3306 6 CYL	13U1	13U777			7S4468	18
3306 6 CYL	13U778	UP	3N1	3N24132	4N7993	18



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	FROM:	TO:	FROM:	TO:		
120						
3306 6 CYL	90R1	UP				18
120G						
3304 4 CYL	82V1	UP	78P10269	UP	3P0134	19
3304 4 CYL	87V1	UP	78P10269	UP	3P0134	19
3304 4 CYL	87V6084	UP	7Z1	UP	7N1131,7N8049	21
3304 4 CYL	11W1	UP	78P18799	UP	3P0134	19
130G						
3304 4 CYL	74V1	UP	78P9699	UP	3P0136,7N1526	19
3304 4 CYL	74V1860	UP	7Z1	UP	7N8048	21
3304 4 CYL	12W1	UP	78P18799	UP	3P0136	19
140						
3306 6 CYL	55F1	55F440				19
3306 6 CYL	55F441	UP	3N1	3N15019	2P6796	19
3306 6 CYL	11R1	11R690			1P0682	19
3306 6 CYL	11R691	UP	3N1	3N15019	2P6796	19
3306 6 CYL	24R1	24R530				19
3306 6 CYL	24R531	UP	3N1	3N15019	2P6796	19
3306 6 CYL	14U1	14U430			7S4464	19
3306 6 CYL	14U431	UP	3N1	3N15019	2P6796	19
140G						
3306 6 CYL	72V1	UP	3N15020	UP	3P0075	19
3306 6 CYL	72V5275	UP	3N34801	UP	7N1212	21
3306 6 CYL	81V1	UP	3N15020	UP	3P0075	19
215						
3304 4 CYL	96L1	UP	48V20897	UP	5C0245	19
225						
3208 8 CYL	51U1	51U589	79V1	79V47	4N4710,4N8635	8
3208 8 CYL	51U590	UP	79V5380	UP	8N1013	7
3304 4 CYL	76U3765	UP	12Z3331	UP	2W1177	23
235						
3306 6 CYL	32K789	32K1300	3N39025	3N56148	4N3571	19
3306 6 CYL	32K1301	2678	3N56149	UP	4N3571,7N1543	19
3306 6 CYL	32K2679	UP	3N821	UP	7N1291	21
245						
3406 6 CYL	95V471	UP	70V3574	UP	4N2255	30/31
3406 6 CYL	82X1	UP	70V3574	UP	7N9472	30/31
518						
3304 4 CYL	50S1	50S596			1P6493	19
3304 4 CYL	50S597	50S1027	78P1	78P11062	2P6784	19
3304 4 CYL	50S1028	UP	78P11063	UP	4N3976	19
3304 4 CYL	55U1	55U151				19
3304 4 CYL	55U152	55U234	78P1	78P11062	2P6784	19
3304 4 CYL	55Y235	UP	78P11063	UP	4N3976	19
3304 4 CYL	94U1	94U170	78P1	78P11062	2P6784	19
3304 4 CYL	94U171	UP	78P11063	UP	4N3976	19
3304 4 CYL	95U1	UP	78P18799	UP	4N3976	19

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	FROM:	TO:	FROM:	TO:		
528						
3304 4 CYL	51S1	51S128	3N11512	3N22765	2P6799	19
3304 4 CYL	51S129	UP	3N22766	UP	4N7367	19
561B						
D333 6 CYL	62A1	UP				4
561C						
D333 6 CYL	85H1	UP				4
3306 6 CYL	92J1	92J390			5S3817	18
3306 6 CYL	92J391	92J511	3N1	3N21603	2P6788	18
3306 6 CYL	92J512	UP	3N21604	UP	4N7361	18
561D						
3306 6 CYL	54X1	54X301	3N1	3N69599	6N7715	18
3306 6 CYL	54X302	UP	3N69600	UP	7N1530	18
3306 6 CYL	59X564	UP	8Z446	UP	7N4980	21
571A						
D339 4 CYL	64A1	UP				40
571F						
3306 6 CYL	95N1	95N192				16
3306 6 CYL	95N193	95N237	3N1	3N15868	2P6807	16
3306 6 CYL	95N238	UP	3N15889	UP	6N486	16
571C						
3306 6 CYL	16W1	UP	3N24133	UP	6N3414	16
572C						
D339 4 CYL	21A1	21A269				40
572D						
D339 4 CYL	21A270	UP				40
572E						
D339 4 CYL	65A1	UP				40
572F						
3306 6 CYL	96N1	96N178			9S6103	16
3306 6 CYL	96N179	96N252	3N1	3N15868	2P6808	16
3306 6 CYL	96N253	UP	3N15869	UP	6N488	16
572G						
3306 6 CYL	40U1	UP	3N28253	UP	4N8975	16
583						
D342 6 CYL	16A1	16A300			4H9420	40/41
583H						
D342 6 CYL	38A1	UP			9H6409	40/41
D342 6 CYL	61A1	61A64			4M1725	40/41
D342 6 CYL	61A65	61A198			7M4555	40/41
D342 6 CYL	61A199	61A679			4S6927	40/41
D342 6 CYL	61A680	61A960			9S2278	40/41
583K						
D342 6 CYL	78V1	78V633	17S1	17S8943	4N7664	40/41
D342 6 CYL	78V634	UP	17S8944	UP	7N3492	40/41

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	FROM:	TO:	FROM:	TO:		
594G						
D353 6 CYL	62H1	62H58			4S6621	42/43
D353 6 CYL	62H59	62H865	97U1	UP	9S2427	42/43
594H						
D353 6 CYL	96V1	96V254	97U1	97U7921	4N7665	42/43
D353 6 CYL	96V255	UP	97U7922	UP	7N3243	42/43
DW10						
D318 6 CYL	1V1	UP				3
613						
3208 8 CYL	71M1	71M2548				8/9
3208 8 CYL	71M2549	71M3401	79V1	79V1408	4N8635	8/9
3208 8 CYL	71M3402	71M4125	79V1409	UP	6N785	8/9
613B						
3208 8 CYL	38W1	38W5538	79V1	79V5380	6N7273	8/9
3208 8 CYL	38W5539	UP	79V5361	UP	8N1011	8/9
621B						
3406 6 CYL	45P1	45P2711	70V1	79V10345	4N2252	30/31
3406 8 CYL	45P2712	UP	70V10346	UP	8N5405	30/31
623B						
3406 6 CYL	46P1	46P1601	70V1	70V10345	4N2252	30/31
3406 6 CYL	46P1602	UP	70V10346	UP	8N5405	30/31
627						
3306 6 CYL	50K1	50K885			8S5086, 2P6809	16
3306 6 CYL	50K886	UP	3N1	3N13522	2P6809	16
3306 6 CYL	69M1	69M809			8S5086, 2P6809	16
3306 6 CYL	69M810	UP	3N1	3N13522	2P6809	16
3306 6 CYL	54K1	54K842			8S5084, 2P6810	16
3306 6 CYL	54K843	UP	3N1	3N13513	2P6810	16
3306 6 CYL	68M1	68M788			8S5084, 2P6810	16
3306 6 CYL	68M789	UP	3N1	3N13513	2P6810	16
627B						
3306 6 CYL	14S1	UP	3N13514	UP	4N4439	16
3306 6 CYL	15S1	UP	3N13514	UP	4N4439	16
3306 6 CYL	37V1	UP	3N13523	UP	4N7376	16
3306 6 CYL	38V1	UP	3N13523	UP	4N7376	16
631D						
3408 8 CYL	24W1	UP	48W1	UP	4N6724	30/31
633C						
D343 6 CYL	66M1	UP				26
633D						
3408 8 CYL	25W1	UP	48W1	UP	4N6724	30/31
637						
3306 6 CYL	64M1	64M381 (FRONT)			8S8943	18
3306 6 CYL	64M382	64M459 (REAR)	3N1	3N14820	2P6811	16
3306 6 CYL	64M460	UP (REAR)	3N14821	3N39325	4N7374	16
3306 6 CYL	91N1	91N582 (REAR)			8S8943	18

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	FROM:	TO:	FROM:	TO:		
637						
3306 6 CYL	91N583	91N750 (REAR)	3N1	3N14820	2P6811	16
3306 6 CYL	91N751	UP (REAR)	3N14821	3N39325	4N7374	16
3306 6 CYL	92N1	92N241 (REAR)			8S8943	18
3306 6 CYL	92N242	92N255 (REAR)	3N1	3N14820	2P6811	16
3306 6 CYL	92N256	92N285 (REAR)	3N14821	3N39325	4N7374	16
637B						
3306 6 CYL	26R1	26R555 (REAR)	3N1	3N14820	2P6811	16
3306 6 CYL	26R556	UP (REAR)	3N14821	3N39325	4N7374	18
637D						
3306 6 CYL	20W1	UP (REAR)	3N39326	3N69599	4N7671	16
3306 6 CYL	20W1	UP (REAR)	3N69600	UP	7N1547	16
3306 6 CYL	21W1	UP (REAR)	3N39326	3N69599	4N7671	16
3306 6 CYL	21W1	UP (REAR)	3N69600	UP	7N1547	16
3306 6 CYL	22W1	UP (REAR)	3N39326	3N69599	4N7671	16
3306 6 CYL	22W1	UP (REAR)	3N69600	UP	7N1547	16
3306 6 CYL	23W1	UP (REAR)	3N39326	UP	4N7671	16
3306 6 CYL	23W1	UP (REAR)	3N69600	UP	7N1547	16
3408 8 CYL	26W1	UP (FRONT)	48W1	UP	4N6724	30/31
3408 8 CYL	27W1	UP (FRONT)	48W1	UP	4N6724	30/31
639D						
3306 6 CYL	88X1	UP (REAR)	3N79763	UP	7N1547	16
3408 8 CYL	99X1	UP (FRONT)	48W1	UP	4N6724	30/31
641B						
D346 8 CYL	65K1	UP	73X1	UP	8S6451	26
650B						
D346 8 CYL	58K1	UP	73X1	UP	8S6451	26
651B						
D346 8 CYL	67K1	UP	73X1	UP	8S6451	26
657B						
D346 8 CYL	68K1	UP	73X1	UP	8S6451	27
660B						
D346 8 CYL	58K1	UP	73X1	UP	8S6451	27
D346 8 CYL	66K1	UP FRONT	73X1	UP	8S6451	27
768C						
3408 8 CYL	2X1	UP	48W4828	UP	4N7722	30
769C						
3408 8 CYL	1X1	UP	48W1	UP	4N7722	30
772						
D346 8 CYL	10S1	UP				27
D346 8 CYL	1181	UP				27
D346 8 CYL	80S1	UP				27
772B						
3412 12 CYL	64W1	UP	73W1	UP	4N7826	30
773						
3408 8 CYL	63G1	UP	73W1	UP		27

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	FROM:	TO:	FROM:	TO:		
773B						
3412 12 CYL	63W1	UP	73W1	UP	4N7826	30
776						
D348 12 CYL	14H1	UP	9881	UP	4N8330	27
777						
D348 12 CYL	84A1	UP	98S1	UP	4N8330	27
779						
D348 12 CYL	45H1	UP				27
814						
3306 6 CYL	90P1	90P147			7S4127	19
3306 6 CYL	90P148	90P202			2P2707	19
3306 6 CYL	90P203	90P265	3N1	3N24132	2P6801	19
3306 6 CYL	90P266	90P439	3N24133	3N69599	4N7369	19
3306 6 CYL	90P440	UP	3N69599	UP	7N1538	19
3306 6 CYL	14R1	14R115			6A3819	19
3306 6 CYL	14R116	14R149			7S4127, 2P2707	19
3306 6 CYL	14R150	14R221	49V1	49V5533	2P6801, 6A4670	19
3306 6 CYL	14R222	UP	49V5534	UP	6A9734, 5C2408	19
815						
3306 6 CYL	91P1	91P527			2P0444	19
3306 6 CYL	91P528	91P752	3N1	3N19520	2P6802	19
3306 6 CYL	91P753	UP	3N19521	UP	4N7370	19
3306 6 CYL	15R1	15R200			2P0444	19
3306 6 CYL	15R201	15R340	49V1	49V5535	2P6802, 6A4671	19
3306 6 CYL	15R341	UP	49V5536	UP	6A9734, 5C2489	19
816						
3306 6 CYL	57U1	57U197			4N4162	19
3306 6 CYL	57U198	57U350	3N1		4N4463	19
3306 6 CYL	57U351	UP	3N118719	UP	4N7371	19
824C						
3306 6 CYL	85X1	UP	70V1	UP	6N2585	32/33
825C						
3306 6 CYL	86X1	UP	70V1	UP	6N2585	32/33
826C						
3306 6 CYL	87X1	UP	70V1	UP	6N2585	32/33
835						
D343 6 CYL	44N1	44N326				28
920						
3304 4 CYL	41J1	41J1499			8S4196	18
3304 4 CYL	41J1500	41J2576	6A3548	UP		18
3304 4 CYL	41J2577	41J4370	48V1	48V14491	2P6777, 6A4615	18
3304 4 CYL	41J2577	41J4370	48V1		5C3508	18
3304 4 CYL	41J4371	UP	48V14492	UP	6A7360, 5C785	18
3304 4 CYL	75J1	UP				18
3304 4 CYL	62K1	62K4605			8S4351	18
3304 4 CYL	62K4606	62K5678	78P1	78P8214	2P6777	18
3304 4 CYL	62K5679	62K9497	78P8215	78P40899	4N3802	18

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	FROM:	TO:	FROM:	TO:		
920						
3304 4 CYL	62K9498	UP	78P40900	UP	7N1515	18
922B						
D330C 4 CYL	94A1	UP				16
D330C 4 CYL	97A1	UP				16
D330C 4 CYL	88J1	UP				18
930						
3304 4 CYL	71H1	UP				18
3304 4 CYL	41K1	UP				18
3304 4 CYL	73U1	UP				18
3304 4 CYL	79J1	79J1499			8S2675	18
3304 4 CYL	79J1500	79J2223			6A3549	18
3304 4 CYL	79J2224	79J3732	48V1	48V14144	2P6777, 6A4615	18
3304 4 CYL	79J2224	79J3732	48V1	48V14144	5C3508	18
3304 4 CYL	79J3733	UP	48V14145	UP	6A7361, 5C790	18
941B						
3304 4 CYL	70H1	70H3883			6A3018	18
3304 4 CYL	70H2942	70H4093	48V1	48V11038	2P6776, 6A5541	18
3304 4 CYL	70H4094	70H4263	48V11039	48V13471	6A7355	18
3304 4 CYL	70H4264	UP	48V13472	UP	6A7355, 5C1595	18
3304 4 CYL	75H1	UP				18
3304 4 CYL	80H1	80H3888			7S4987	18
3304 4 CYL	80H3884	80H4675	78P1	78P7424	2P6776, 6A5541	18
3304 4 CYL	80H4676	UP	78P7425	UP	4N3801	18
944						
D330C 4 CYL	77J1	UP				18
944A						
D330 4 CYL	43A1	UP				4
D330 4 CYL	70A1	70A1050				4
D330C 4 CYL	87J1	UP				18
950						
D330 4 CYL	90A1	90A3142				4
D330 4 CYL	99A1	UP				4
D330 4 CYL	58H1	UP				4
D330 4 CYL	15J1	UP				4
3304 4 CYL	43J1	43J4063				18
3304 4 CYL	43J4064	43J6267	48V1	48V14466	2P6785, 6A4617	19
3304 4 CYL	43J6268	UP	48V4467	UP	6A7362, 5C2085	19
3304 4 CYL	73J1	UP	43V1	UP	7S4124, 4N3975	19
3304 4 CYL	81J1	81J5410			7S1425	19
3304 4 CYL	81J5411	81J6604	78P1	78P9706	2P6785, 6A4617	19
3304 4 CYL	81J6605	UP	78P9707	UP	4N3975	19
3304 4 CYL	31K1	31K1200				18
3304 4 CYL	31K1201	31K12338	78P1	78P9706	2P6785	19
3304 4 CYL	31K1339	UP	78P9707	UP	4N3975	19
3304 4 CYL	49U1	49U237				19
3304 4 CYL	49U238	UP	78P1	78P10810	2P9561	19

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
951						
D330 4 CYL	89A1	UP				4
D330 4 CYL	92A1	92A1951				4
3304 4 CYL	63K1	UP				18
951B						
D330 4 CYL	79H1	UP				4
3304 4 CYL	72J1	UP				18
D330 4 CYL	78J1	UP				4
951C						
3304 4 CYL	86J1	86J1992			7S4983	18
3304 4 CYL	86J1993	86J2597			7S4983	18
3304 4 CYL	86J2598	86J4718	78P1	78P40899	2P6779	18
3304 4 CYL	86J4719	UP	78P40900	UP	7N1521	18
3304 4 CYL	19H1	19H2172	43V1	UP		18
3304 4 CYL	69H1	69H2519				18
3304 4 CYL	69H2520	69H3508	48V1	48V10309	2P6779, 6A5546	18
3304 4 CYL	69H3509	UP	48V10310	UP	6A8666	18
955						
D315 4 CYL	26A1	UP				3
955C						
D315 4 CYL	12A1	12A5792				3
955E						
D315 4 CYL	12A5793	12A8418				3
955F						
D330 4 CYL	45A1	45A1276				4
955H						
D330 4 CYL	80A1	UP				4
D330 4 CYL	93A1	UP				4
955K						
D330 4 CYL	72A1	72A3240				4
D330 4 CYL	61H1	UP				4
3304 4 CYL	64J1	64J5182				18
3304 4 CYL	64J5183	64J7350	48V1	48V10945	2P6783, 6A5545	19
3304 4 CYL	64J7351	64J7631	48V10946	48V12822	6A7359	19
3304 4 CYL	64J7632	UP	48V12823	UP	6A7359, 5C1597	19
3304 4 CYL	71J1	71J1558				18
3304 4 CYL	71J1559	UP				19
D330 4 CYL	61H1	UP				4
3304 4 CYL	85J1	85J4671			7S4979	19
955L						
3304 4 CYL	85J4672	85J6247			7S6788	19
3304 4 CYL	85J6248	85J7633	78P1	78P7424	2P6788	19
3304 4 CYL	85J7634	UP	78P7425	UP	4N3974	19
3304 4 CYL	13X1	13X1595	78P38513	78P40899	4N3974	19
3304 4 CYL	13X1596	UP	78P40900	UP	7N1524	19
966						
D333 6 CYL	33A1	33A2110				4

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
966B						
D333 6 CYL	75A1	75A1370				4
D333 6 CYL	75A1371	UP				4
D333 6 CYL	57H1	UP				4
966C						
3306 6 CYL	78G1001	78G1604	44V1	UP	2P6800, 4N7368	19
3306 6 CYL	42J1	42J3565			7S4127, 6A3819	19
3306 6 CYL	42J3566	42J5154	49V1	49V5571	2P6800, 6A4669	19
3306 6 CYL	42J5155	42J6497	49V5572	UP	6A9733, 5C3530	19
3306 6 CYL	42J6498	UP	49V9319	UP	5C1454	19
3306 6 CYL	76J1	76J6388			7S4127, 6A3819	18
3306 6 CYL	76J6389	76J7945	3N1	3N19153	2P6800	19
3306 6 CYL	76J7946	UP	3N19154	3N24132	4N7368	19
3306 6 CYL	30K1	30K1624			7S4127	18
3306 6 CYL	30K1625	30K1972	3N1	3N19153	2P6800	19
3306 6 CYL	30K1973	UP	3N19154	3N24132	4N7368	19
3306 6 CYL	25U1	UP				18
977A						
D330A 4 CYL	43D1	UP				4
977D						
D318 6 CYL	20A1	20A2508				3
977E						
D318 6 CYL	20A2509	UP				3
977H						
D333 6 CYL	53A1	53A5921				4
977K						
D333 6 CYL	46H1	UP				4
D333 6 CYL	76H1	UP				4
3306 6 CYL	48J1	48J1058			6A3093	19
3306 6 CYL	48J1059	48J1696	49V1	49V5897	2P6804, 6A5551	19
3306 6 CYL	48J1697	UP	49V5898	UP	6A9732, 5C1990	19
3306 6 CYL	70J1	UP	44V1	UP		19
977L						
3306 6 CYL	11K1	11K5050			7S4460	18
3306 6 CYL	11K5051	11K6440	3N1	3N17378	2P6804	19
3306 6 CYL	11K6441	UP	3N17378	UP	4N7373, 2P8947	19
3306 6 CYL	14X1	UP	3N79763	3N90666	8N3189	19
3306 6 CYL	14X1	UP	3N69600	UP	7N1544	19
980B						
3306 6 CYL	89P1	89P2167			9S9000	16
3306 6 CYL	89P2168	89P3494	3N1	3N21330	2P6812	16
3306 6 CYL	89P3495	UP	3N21331	3N24132	4N7377	16
980C						
3406 6 CYL	63X1	UP	70V4688	UP	6N2069	32/33
983B						
3406 6 CYL	58K1	UP	70V5101	UP	6N2222	32/33

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
988B						
3408 8 CYL	50W1	UP	48W1	48W7685	4N6254	30/31
3408 8 CYL	50W1	UP	48W7686	UP	8N1843	38
992						
D348 12 CYL	25K1	UP	98S1	UP	7S8287	27
992C						
3412 12 CYL	42X1	UP	73W1	UP	6N204	30/31
3412 12 CYL	49Z1	UP	73W3403	UP	1N4400	38

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
D315					
4 CYL	9S5001	9S13357	MARINE ENGINE, U.S.	1947	3
4 CYL	4V1	4V1472	GEN SET, U.S.	1947	3
4 CYL	5V1	UP	MARINE ENGINE, U.S.	1947	3
D315G					
4 CYL	48B1	48B756	INDUSTRIAL ENGINE, U.S.	1956	3
4 CYL	52B1	52B372	INDUSTRIAL ENGINE, U.S.	1957	3
D318					
6 CYL	3V5001	UP	GEN SET, U.S.	1947	3
6 CYL	5V1	UP	INDUSTRIAL ENGINE, U.S.	1947	3
6 CYL	6V1	6V754	MARINE ENGINE, U.S.	1947	3
D318G					
6 CYL	45B1	UP	INDUSTRIAL ENGINE, U.S.	1947	3
6 CYL	53B1	UP	INDUSTRIAL ENGINE, U.S.	1957	3
D330A					
4 CYL	56B1	UP	INDUSTRIAL ENGINE, U.S.	1956	4
4 CYL	57B1	UP	MARINE ENGINE, U.S.	1959	4
4 CYL	85B1	UP	INDUSTRIAL ENGINE, U.S.	1965	4
4 CYL	86B1	UP	MARINE ENGINE, U.S.	1965	4
D330B					
4 CYL	98B1	UP	INDUSTRIAL ENGINE, U.S.	1966	4
4 CYL	99B1	UP	MARINE ENGINE, U.S.	1966	4
D330C					
4 CYL	2B1	UP	INDUSTRIAL ENGINE, U.S.	1968	17
4 CYL	4B1	UP	INDUSTRIAL ENGINE, U.S.	1968	16
4 CYL	5B1	UP	MARINE ENGINE, U.S.	1968	16
D333A					
6 CYL	58B1	58B4556	INDUSTRIAL ENGINE, U.S.	1962	4
6 CYL	59B1	UP	MARINE ENGINE, U.S.	1965	4
6 CYL	87B1	UP	INDUSTRIAL ENGINE, U.S.	1965	4
6 CYL	88B1	UP	MARINE ENGINE, U.S.	1965	4
D333C					
6 CYL	23C1	UP	INDUSTRIAL ENGINE, U.S.	1968	19
6 CYL	68D1	UP	INDUSTRIAL ENGINE, U.S.	1967	19
6 CYL	67D1	UP	MARINE ENGINE, U.S.	1967	19
D334					
6 CYL	92B1	UP	INDUSTRIAL ENGINE, U.S.	1974	17
6 CYL	93B1	UP	MARINE ENGINE, U.S.	1973	17
D339					
4 CYL	34B1	34B1664	INDUSTRIAL ENGINE, U.S.	1955	40
D342					
6 CYL	17S1	UP	VEHICULAR ENGINE, U.S.	1978	40/41
6 CYL	17S1	17S2853	VEHICULAR ENGINE, U.S.	1978	40
6 CYL	17S2854	UP	VEHICULAR ENGINE, U.S.	1978	41
D342C					
6 CYL	31B1	UP	INDUSTRIAL ENGINE, U.S.	1976	40/41
6 CYL	31B1	31B2477	INDUSTRIAL ENGINE, U.S.	1976	40

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
D342C					
6 CYL	31B2478	31B3090	INDUSTRIAL ENGINE, U.S.	1976	41
6 CYL	31B3091	UP	INDUSTRIAL ENGINE, U.S.	1976	40
6 CYL	32B1	UP	MARINE ENGINE, U.S.	1975	40
6 CYL	49B1	UP	INDUSTRIAL ENGINE, U.S.	1966	40/41
6 CYL	49B1	49B33	INDUSTRIAL ENGINE, U.S.	1966	40
6 CYL	49B34	49B311	INDUSTRIAL ENGINE, U.S.	1966	41
6 CYL	49B312	UP	INDUSTRIAL ENGINE, U.S.	1966	40
6 CYL	50B1	UP	MARINE ENGINE, U.S.	1966	40/41
6 CYL	50B1	50B34	MARINE ENGINE, U.S.	1966	40
6 CYL	50B35	50B286	MARINE ENGINE, U.S.	1966	41
6 CYL	50B287	UP	MARINE ENGINE, U.S.	1966	40
D343			MARINE ENGINE, U.S.	1960	
6 CYL	33B1	UP	1N5839, 1N5853, 3N8341, 6N6753, 8N8596, 6N8597	1960	28
6 CYL	62B1	UP	INDUSTRIAL ENGINE, U.S. 1N5539	1960	28
D346			VEHICULAR ENGINE, U.S.	1976	
8 CYL	39J1	UP	INDUSTRIAL ENGINE, U.S.	1968	27
8 CYL	40J1	UP	MARINE ENGINE, U.S.	1968	27
6 CYL	52K1	UP	9L4763, 9L6796, 9L6797, 9L6071, 9L5780, 9N3085, 9N3086	1972	28
8 CYL	98N1	UP	TRUCK ENGINE, U.S.	1970	27
8 CYL	73X925		VEHICULAR ENGINE, U.S. 8S6451, 9S6161	1979	27
D348					
12 CYL	36J1	UP	INDUSTRIAL ENGINE, U.S.	1968	27
12 CYL	38J1	UP	MARINE ENGINE, U.S.	1968	27
12 CYL	57K1	UP	TRUCK ENGINE, U.S.	1968	27
12 CYL	98S1	98S2686	VEHICULAR ENGINE, U.S. 4N8330, 8N8927, 2W5258	1976	27
D349					
18 CYL	61P1	UP	INDUSTRIAL ENGINE, U.S.	1970	27
16 CYL	62P1	UP	MARINE ENGINE, U.S.	1970	27
16 CYL	32R1	UP	TRUCK ENGINE, U.S.	1975	27
D353					
6 CYL	46B1	UP	INDUSTRIAL ENGINE, U.S.	1964	42/43
6 CYL	47B1	UP	MARINE ENGINE, U.S.	1961	42/43
8 CYL	77B1	UP	INDUSTRIAL ENGINE, U.S.	1964	42/43
6 CYL	97U	UP	VEHICULAR ENGINE, U.S.	1978	42/43
6 CYL	87V	UP	D9G/H TRACK-TYPE TRACTOR, U.S.	1974	42/43
G353					
6 CYL	46B809	46B1557	NATURAL GAS ENGINE T/NA 7.1 & 10.1 C/R, U.S.	1975	44/45
D364					
8 CYL	19B1	19B335	INDUSTRIAL ENGINE, U.S. 4N4444, 4N4445, 4N7664	1949	40/41
8 CYL	20B1	20B102	MARINE ENGINE, U.S.	1949	40/41
8 CYL	21B1	21B368	DIESEL ELECTRIC, U.S.	1949	40/41
D375					
8 CYL	16B1	UP	INDUSTRIAL ENGINE, U.S.	1949	40/41
8 CYL	17B1	UP	MARINE ENGINE, U.S.	1949	40/41
8 CYL	18B1	UP	DIESEL ELECTRIC, U.S.	1949	40/41

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
D375D					
8 CYL	43B1	UP	INDUSTRIAL ENGINE,U.S.	1956	40/41
8 CYL	44B1	UP	MARINE ENGINE,U.S.	1956	40/41
D379A					
8 CYL	68B1	68B1615	INDUSTRIAL ENGINE,U.S.	1961	42/43
8 CYL	69B1	69B823	MARINE ENGINE,U.S.	1961	42/43
D379B					
8 CYL	68B1616	68B2539	INDUSTRIAL ENGINE,U.S.	1968	42/43
8 CYL	69B824	69B1226	MARINE ENGINE,U.S.	1968	42/43
8 CYL	76B1	UP	INDUSTRIAL ENGINE,U.S.	1964	42/43
G379					
8 CYL	72B1	UP	INDUSTRIAL, NATURAL GAS ENGINE,U.S.	1972	44/45
D386					
12 CYL	13B1	13B258	INDUSTRIAL ENGINE,U.S.	1949	40/41
12 CYL	14B1	UP	MARINE ENGINE,U.S.	1949	40/41
12 CYL	15B1	15B079	DIESEL ELECTRIC,U.S.	1949	40/41
D397					
12 CYL	10B1	10B725	INDUSTRIAL ENGINE,U.S.	1949	40
12 CYL	11B1	11B175	MARINE ENGINE,U.S.	1949	40
12 CYL	12B1	12B399	DIESEL ELECTRIC,U.S.	1949	40
D397D					
12 CYL	41B	41B4298	INDUSTRIAL ENGINE,U.S.	1956	40
12 CYL	42B1	42B458	MARINE ENGINE,U.S.	1956	40
D398A					
12 CYL	66B1	66B2048	INDUSTRIAL ENGINE,U.S.	1961	42/43
12 CYL	67B1	67B919	MARINE ENGINE,U.S.	1961	42/43
D398B					
12 CYL	66B2049	UP	INDUSTRIAL ENGINE,U.S.	1968	42/43
12 CYL	67B920	UP	MARINE ENGINE,U.S.	1968	42/43
G398B					
12 CYL	73B1	UP	NATURAL GAS ENGINE,U.S.	1963	42/43
D399					
16 CYL	35B1	UP	INDUSTRIAL ENGINE,U.S.	1967	42/43
16 CYL	91B1	UP	MARINE ENGINE,U.S.	1972	42/43
G399					
16 CYL	49C1	UP	NATURAL GAS ENGINE,U.S.	1968	44/45
1140					
8 CYL	36B1	36B2337	TRUCK ENGINE,U.S.	1967	1
1145					
8 CYL	97B1	97B9173	TRUCK ENGINE,U.S.	1967	1
1150					
8 CYL	96B1	96B11211	TRUCK ENGINE,U.S.	1967	2
1160					
8 CYL	95B1	95B24224	TRUCK ENGINE,U.S.	1967	8/9
1670					
4 CYL	61B1	UP	TRUCK ENGINE,U.S. 9L2716	1964	4

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
1673					
6 CYL	70B1	70B233	TRUCK ENGINE, U.S.	1961	4
1673C					
6 CYL	69D1	UP	TRUCK ENGINE, U.S.	1969	16
6 CYL	76R1	76R272	TRUCK ENGINE, U.S.	1971	16
1674					
6 CYL	94B1	UP	TRUCK ENGINE, U.S.	1973	17
1693			TRUCK ENGINE, U.S.	1964	
6 CYL	65B1	UP	9L4763, 9L5163, 9L6093, 9L5780, 9L5782, 9L5984, 9L5985, 9L6054, 9L6071, 9L6092, 9L6116, 9L6117, 9L6796, 9L6797		26/28 26/28
6 CYL	65B782	65B18289	1N5839, 3N8341, 6N6753, 7N0739, 8N0822, 9N0838, 9N2874, 9N3085, 9N3086		26/28 26/28
3145			INDUSTRIAL ENGINE, U.S.	1969	
8 CYL	96M1	UP	8L8216, 2N8616, 3N4106, 3N1286, 3N3516, 3N1276, 4N7466, 4N7456		1 1
8 CYL	65P1	UP	ELECTRIC SET, U.S.	1969	1
3150			INDUSTRIAL ENGINE, U.S.	1969	
8 CYL	97M1	UP	8L6217, 2N2N6277, 2N8617, 2N9317, 3N3517, 4N4857, 6N0947		2
8 CYL	66P1	UP	ELECTRIC SET, U.S.	1969	2
3160					
8 CYL	98M1	UP	INDUSTRIAL ENGINE, U.S.	1969	8/9
8 CYL	68P1	UP	MARINE ENGINE, U.S.	1969	8/9
8 CYL	67P1	UP	ELECTRIC SET, U.S.	1969	8/9
3204			INDUSTRIAL ENGINE, JAPAN	1984	
4 CYL	8DC376		1N3513		7
4 CYL	6DC19290		7E8639		6
4 CYL	3PC434		4W3633		7
3204			VEHICULAR ENGINE, JAPAN	1977	
4 CYL	45V1	45V17159	4N0169, 4N0303		5
4 CYL	45V17180	UP	7N3800, 7N5139, 7N6938		7
4 CYL	45V29936		6N6626		6
4 CYL	45V35841	45V36536	1W1356, 4W8374		7
4 CYL	45V37439	45V37498	1W0162, 1W0163, 1W0184, 1W0616		6
4 CYL	45V38842	45V39562	1W7263, 7N6429		7
4 CYL	45V39867	45V40126	2W7487, 2W7488		6
4 CYL	45V40547	45V53278	7C0934, 7C0935, 1N3608, 1N3610, 8N3165, 4W8022		7
4 CYL	45V53573	45V53859	7C0933, 7C0947, 7C3256		6
4 CYL	45V54845	45V57072	7C5037, 1W5853		7
4 CYL	45V60736		7C7739		6
4 CYL	45V63498		7C8867		7
4 CYL	45V68306	45V68350	9Y0792, 9Y1875, 9Y1876		6
4 CYL	45V78881		7E2301		7
4 CYL	45V83982	45V90750	7E6635, 7E6666, 7E6667, 7E6668, 4P0906, 4P0907, 4P0908, 4P0909, 4P0910, 4P0911		6 6
3204			VEHICULAR ENGINE, U.S.	1980	
4 CYL	10X5360	10X5365	4N8376, 6N6626, 7N0072		7
4 CYL	10X5416	10X6648	1W1356, 1W7263, 1W7264, 4W8374		7

[illegible]

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3208			TRUCK ENGINE, U.S.	1978	
8 CYL	32Y11	32Y8374	9N3738, 9N5140, 9N5142, 9N5143, 9N5149, 9N5150,		7
			9N5167, 9N5175, 9N5176, 9N5183, 9N5185, 9N5332,		7
			9N5830, 9N5831, 9N5835, 9N6134, 9N6135, 9N6323,		7
			9N6345, 9N6352, 9N6353, 9N6354, 9N6360, 9N6362		7
			9N6371, 1W5159, 1W7686		6
8 CYL	32Y8375	32Y99999	9N5153, 9N5156, 9N5160, 9N5161, 9N5164, 9N5165,		14/15
			9N5176, 9N5184, 9N6320, 9N6348, 9N6349, 9N6350,		14/15
			9N6351, 9N6361, 9N6363, 9N6424, 9N6511, 9N6515,		14/15
			9N6625, 9N6637, 9N6705, 9N6708, 9N6709, 9N6710,		14/15
			9N6711, 9N6719, 9N6720, 9N6724, 9N6725, 9N6726,		14/15
			9N6727, 9N6728, 9N6737, 9N6739, 9N6740, 9N6741,		14/15
			9N6891, 9N6892		14/15
8 CYL	32Y22748	32Y58972	9N5247, 9N5751, 9N5752, 9N5829, 9N6425, 9N6426,		7
			9N6512, 9N6513, 9N6514, 9N6624, 9N6626, 9N6627,		7
			9N6628, 9N6638, 9N6639		7
8 CYL	32Y68441	32Y70412	9N6686, 9N6687, 9N6688, 9N6689, 9N6690, 9N6693,		7
			9N6694, 9N6695, 9N6696, 9N6698, 9N6699, 9N6701,		7
			9N6702, 9N6703, 9N6704, 9N6706, 9N6707, 9N6718,		7
			9N6721, 9N6722, 9N6747		7
8 CYL	32Y69672	32Y87802	1W5158, 1W5343, 1W6170, 1W7687, 2W7726		14/15
8 CYL	32Y92001	32Y94999	9N6700, 9N6701, 9N6703, 9N6704, 9N6706, 9N6707,		7
			9N6712, 9N6717, 9N6721, 9N6722, 9N6723, 9N6729,		7
8 CYL	32Y92001	32Y94999	9N6730, 9N6731, 9N6732, 9N6733, 9N6734, 9N6735,		7
			9N6736, 9N6742, 9N6743, 9N6744, 9N6745, 9N6746		7
3208			MARINE ENGINE, U.S.	1980	
8 CYL	1Z1	UP	1W5070, 1W5900, 1W9350, 2W0768, 2W0928, 2W1320,		7
			2W1325, 4W9900, 4W9901, 7W1000, 7W1700, 7W1800,		7
			7W7500, 7W9150, 7C7500, 7C6479		7
3208			TRUCK ENGINE, U.S.	1980	
8 CYL	2Z1	UP	7C3555, 7C4789, 7C5208, 7C5640, 7C5642, 7C5643, 7C5645,		7
			7C6471, 7C6472, 7C6473, 7C6474, 7C6475, 7C6476, 7C6479		7
8 CYL	2Z1985	UP	7C8842, 7C8800, 7C8801, 7C8802, 7C8803, 7C8804,		7
			7C8805, 7C8806, 7C8807, 7C8808, 7C8809, 7C8810,		7
			7C8811, 7C8812, 7C8815, 7C8833, 7C8838, 7C8840,		7
			7C8841, 7C8842, 7C8843, 7C8845, 7C8846, 7C8846,		7
			7C8847, 7C8848, 7E3494, 7E3575, 7E3780, 7E5206,		7
			8N4300, 9N5460, 9N5996, 9N5997, 9N5998, 9N6484,		7
			1W6784, 1W7467, 1W7468, 1W7470, 1W7472, 1W7497,		7
			1W7498, 1W9808, 1W9809, 2W0676, 2W1125, 2W3300,		7
			2W3301, 2W3302, 2W3303, 2W3304, 2W3305, 2W4949,		7
			2W4951, 2W5180, 2W5181, 2W5182, 2W6479, 2W8178,		7
			2W8217, 2W8218, 4W1494, 4W1988, 4W2123, 4W2854,		7
			4W3723, 4W8973, 7W2659, 7W2664, 7W2665, 7W2911,		7
			7W2912, 7W3203, 7W4046, 7W6769, 7W8514, 7W8921,		7
			7W8922, 7W8924, 7W9386, 7W9388, 9Y5871, 9Y5872,		7
			9Y5873, 9Y5874, 9Y5875, 9Y6366, 9Y6493, 9Y6494,		7
			9Y6495, 9Y7710, 9Y7711, 9Y7713, 9Y8987		7
8 CYL	2Z2082	2Z2529	1W6715, 1W7469, 1W7471, 2W0675, 2W2416, 2W4948,		14/15
			2W4950		14/15

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3208			TRUCK ENGINE, U.S.	1980	
8 CYL	2Z13750	2Z16431	1W6715, 2W5178, 2W5179, 7W3302, 7W3305, 7W5650, 7W5651, 7W5652, 7W5653, 7W5657, 7W5659, 7W5660, 7W8923, 7W9387,		10/11
8 CYL	2Z 28487	2Z33380	7C3103, 7C5283, 7C5571, 7C5639, 7C5644, 7C6477, 7C5641, 7W2906, 7W2907, 7W3002, 7W3003, 7W5558,		10/11
8 CYL	2Z50809	UP	7E2400, 7E5212, 7E5791, 7E5994, 7E9563, 4P7877, 4P7878, 4P7879, 4P8516, 9Y7049, 9Y7050, 9Y7051, 9Y7053, 9Y7054, 9Y7055, 9Y7056, 9Y7507, 9Y7652, 9Y8188, 9Y9275, 9Y9276, 9Y9277, 9Y9278, 9Y9279, 9Y9280, 9Y9281, 9Y9282, 9Y9283, 9Y9284, 9Y9285, 9Y9866, 9Y9867, 9Y9868, 9Y9669, 9Y9870, 9Y9871, 9Y9872, 9Y9877		12
8 CYL	2Z54594		7E3649		10/11
3208			TRUCK ENGINE, U.S.	1980	
8 CYL	3Z1	UP	7C1346, 7C3636, 7C4091, 7C6372, 7C7635, 7E3765, 7E3766, 7E5868, 8N4046, 8N7094, 8N7095, 8N7122, 9N6482, 4P1724, 1W8699, 2W8219, 2W8227, 2W8612, 2W9125, 4W0860, 4W9003, 7W7069, 9Y6437		7
8 CYL	3Z1	UP	4P7256		12
3208			TRUCK ENGINE, U.S.	1982	
8 CYL	51Z54	51Z3145	2W4958, 2W4959, 2W4960		14/15
8 CYL	51Z38204		9N8723		10/11
8 CYL	51Z40493	51Z44987	9N6698, 9N6687, 9N6688, 9N6698, 9N6721, 9N6722, 9N6734, 9N6746, 9N6747, 2W0978, 2W4952, 2W4953, 7W5204, 7W5205, 7W8920		10/11
8 CYL	51Z55824	51Z56532	7C1552, 7C1553, 7C1554, 7C1561, 7C1562, 7C1563, 7C1564, 7C1634, 7C1635, 7C1636, 7C1637, 7C1638, 7C1639, 7C1640,		10/11
8 CYL	51Z55824	UP	7C2300, 7C2301, 7C2302, 7C2303, 7C2304, 7C2305, 7C2306, 7C3665, 7C56345		14/15
8 CYL	51Z77073		7C8832, 7C8831, 7C8839, 7C8849		13
8 CYL	51Z77140		7C8809, 7C8816		13
8 CYL	51Z77506	51Z80951	4P0921, 4P0922, 4P3710, 9Y9577, 9Y9578, 9Y7709		10/11
8 CYL	51Z77506		9Y9706		13
8 CYL	51Z78017		7E3576		13
8 CYL	51Z78897				13

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3304			INDUSTRIAL ENGINE, U.S.	1973	
4 CYL	2B1	UP	4N9957, 4N9958, 6N1103, 6N1104, 6N1105, 7N3272, 7N3273, 7N3274, 7N3275, 7N3277, 8N5748, 8N5749, 8N5750		18
4 CYL	2B14083	UP	1W2468, 2W5900, 7W5765		20
4 CYL	4B13096	UP	7N3301, 7N3304, 8N5751, 8N5752, 8N5753		16
4 CYL	4B15173	UP	7N3305, 8N3495, 1W1529, 4W4647		22
4 CYL	4B23999	UP	1W1529		16
3304			INDUSTRIAL ENGINE, BELGIUM	1983	
4 CYL	4XB1	UP	6C0822, 6C2311		23
3304			MARINE ENGINE, U.S.	1971	
4 CYL	5B2100	UP	7N3278		16
3304			GENERATOR SET, BRAZIL	1983	
4 CYL	6YB604	UP	2Y5284, 2Y9254		16
3304			VEHICULAR ENGINE, BRAZIL	1986	
4 CYL	9CB118	UP	2Y8609, 2Y8621, 2Y9628		21
3304			GENERATOR SET, BELGIUM	1985	
4 CYL	3TC1	UP	7C0775, 7W3018		21
4 CYL	3TC1	UP	7C0776, 7W3019		23
3304			GENERATOR SET, BRAZIL	1986	
4 CYL	4PC1	UP	2Y7924		16
3304			VEHICULAR ENGINE, BRAZIL	1986	
4 CYL	4YD2200	UP	5Y1640		21
3304			INDUSTRIAL ENGINE, U.S.	1982	
4 CYL	10E300	UP	1W3871, 1W3875, 1W3876, 1W3877, 1W3880, 4W3918, 4W7765		23
4 CYL	10E587	UP	1W3880, 1W3883, 1W3885, 9Y6208		21
3304			MARINE ENGINE, U.S.	1982	
4 CYL	13E300	UP	4W2184		21
4 CYL	13E300	UP	1W3888		23
3304			VEHICULAR ENGINE, U.S.	1972	
4 CYL	78P1	UP	4N3799, 4N3801, 4N3803, 4N3806, 4N3807, 7N1515, 7N1516, 7N1517, 7N1519, 7N1520, 7N1521, 7N1522, 7N2301, 2P6775, 2P6776, 2P6777, 2P6778, 2P6779, 2P6780, 2P6781		18
3304			VEHICULAR ENGINE, JAPAN	1974	
4 CYL	43V1	UP	2P6775, 2P6776, 2P6777, 2P6778, 2P6782, 2P6786 2P6787, 3Y1602,		18
4 CYL	43V2453	43V3278	2P6779, 4N3799, 4N3802, 4N3803, 4N3804, 4N3807,		18
4 CYL	43V12106	43V16274	7N3586, 7N3587, 7N3591, 7N3592, 7N3897		18
3304			VEHICULAR ENGINE, BRAZIL	1982	
4 CYL	46V1	46V5531	2Y2007, 2Y2415, 2Y4000		18
3304			VEHICULAR ENGINE, BELGIUM	1973	
4 CYL	48V1	48V4636	6A5462, 6A6501		19
4 CYL	48V4346	48V43462	6A7355, 6A7357, 6A7360, 6A7361, 6A8666, 5C5463		18
4 CYL	48V14467	UP	6A7359, 6A7362, 5C0245		19

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
G3304			NATURAL GAS ENGINE, U.S.	1979	
4 CYL	37Y1852	UP	8N5943		25
4 CYL	37Y1852	UP	8N4921		24
4 CYL	37Y2145	UP	1029432		25
4 CYL	37Y2145	UP	1029431		24
3304			VEHICULAR ENGINE, U.S.	1980	
4 CYL	7Z1300	UP	7N1131, 7N1307, 8N3071, 8N3073, 8N3675, 1W5126, 2W0821, 2W0822, 2W1874, 2W1876		21
4 CYL	7Z4606	UP	6N1306, 6N6878, 7N2330, 1W7481, 2W3989		21
3304			VEHICULAR ENGINE, U.S.	1980	
4 CYL	7Z32301		1298178		23
3304			VEHICULAR ENGINE, JAPAN	1980	
4 CYL	9Z1	UP	4P0903		23A
4 CYL	9Z4901	UP	7C0743, 7C4446, 7N6430, 4P2394		21
3304			VEHICULAR ENGINE, BELGIUM	1981	
4 CYL	12Z1	UP	6C0201, 6C0395, 6C0878, 6C1413, 6C1897, 6C2364, 7C4736, 7C9921, 7N4584, 9Y1721, 7E2861, 7E2862, 7E2863, 7E2864		23
4 CYL	12Z676	UP	5C8753, 5C8758, 5C9243		23
4 CYL	12Z2786	UP	6C0112, 6C0113, 1W4582, 1W4584		21
4 CYL	12Z21784	UP	5C8862, 5C8965, 5C9953,		21
3304			VEHICULAR ENGINE, BRAZIL	1981	
4 CYL	59Z1	UP	2Y6293, 2Y6294, 2Y6295		23
4 CYL	59Z327	UP	2Y7227, 2Y7229		18
3304			GENERATOR SET, BELGIUM	1982	
4 CYL	83Z538	UP	1W3884, 1W3886, 1W3887		21
4 CYL	83Z538	UP	1W3874, 1W3878, 1W3879, 1W9158		23
4 CYL	83Z3096	UP	7C1194		21
3306			INDUSTRIAL ENGINE, BRAZIL	1983	
6 CYL	4WB1	UP	2Y6593, 2Y7745		16
3306			GENERATOR SET, BELGIUM	1985	
6 CYL	5JC1	UP	7C0777, 7C0778, 7W3020, 7W3021, 7W8711, 7W8716, 7W8721		23
3306			GENERATOR SET, BELGIUM	1983	
6 CYL	7HB1	UP	2Y5286, 2Y9236, 2Y9666		23
3306			INDUSTRIAL ENGINE, BELGIUM	1983	
6 CYL	7JB1	UP	6C1011, 6C1294, 6C1512, 6C1516, 6C1779, 6C1780, 6C2231, 6C3501, 2W1557, 4W6271, 4W6272		23
3306			INDUSTRIAL ENGINE, U.S.	1972	
6 CYL	23C1519	UP	8N3417		20
6 CYL	23C1661	UP	1W2469		18
6 CYL	23C1848	UP	4W4648		20
6 CYL	23C2002	UP	7W5764		16
3306			TRUCK ENGINE, BELGIUM	1986	
6 CYL	5KD1	UP	7C7249, 7E3533, 7E3534, 7E3535, 7E6778, 7E6779, 7E9401, 7W6037		23
					23

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3306			VEHICULAR ENGINE, BRAZIL	1986	
6 CYL	8TD352		2Y8676		21
3306			INDUSTRIAL ENGINE, U.S.	1972	
6 CYL	66D1	UP	1W1534, 4W4649		22
			1N4214, 3N8100, 6N3323, 6N3743, 6N5917, 6N6294,		22
			7N1989, 7N3381, 7N3382, 7N3387, 7N3388, 7N3389,		22
			7N4316, 7N7774, 7N7775, 7N7982, 8N1506, 7N8317,		22
			8N3421, 8N3422, 1W1531, 1W1532, 1W1533		22
6 CYL	66D32137	UP	1N4213, 1N4392, 1N4393, 7N3379, 7N3382, 7N3383,		16
			7N3384, 7N3385, 7N3386, 8N3418, 8N3419, 8N3420,		16
			8N3421, 8N4560, 8N4561, 8N5115, 8N5116, 1W1531,		16
			1W1532, 1W1533		16
3306			MARINE ENGINE, U.S.	1967	
6 CYL	67D2241		7N3374		16
6 CYL	67D2440		6N5958, 7N3375		22
3306			VEHICULAR ENGINE, BRAZIL	1986	
6 CYL	1AF1	UP	7W6847, 2Y9923		23
6 CYL	1AF806	1AF807	2Y9412, 2Y9414, 5Y1001, 9Y6707		21
3306			GENERATOR SET, U.S.	1988	
6 CYL	2AJ1	UP	9Y2190, 9Y2191, 9Y2213, 9Y3026, 9Y3027		23
3306			VEHICULAR ENGINE, U.S.	1972	
6 CYL	3N1	UP	4N4993, 4N4994, 6N7715, 6N7717, 2P6788, 2P6789,		18
			2P6790, 2P6791, 2P6792, 2P6793		18
6 CYL	3N1	UP	4N7671		22
6 CYL	3N10246	UP	1P9587		18
6 CYL	3N21604	UP	4N7361, 4N7363, 4N7364		18
6 CYL	3N69600	UP	7N1529, 7N1530, 7N1531, 7N1532		18
6 CYL	3N69600	UP	7N1545, 7N1546, 7N1549, 7N1550, 7N1551, 7N1552		16
6 CYL	3N69600	UP	7N1547		22
3306			TRUCK ENGINE, U.S.	1978	
6 CYL	76R273	76R2810	9N3562, 9N3563, 9N3564		16
6 CYL	76R1295	UP	9N1236, 9N1237, 9N1238, 9N1239		22
6 CYL	76R2811	UP	9N3566, 9N3567, 9N3568, 9N6389		22
6 CYL	76R6161	UP	7C6193, 9Y4853		22
3306			VEHICULAR ENGINE, JAPAN	1974	
6 CYL	44V1	UP	2P6788, 2P6789, 4N3789, 4N7361, 4N7363,		18
			7N4646, 7N4647, 7N4648		18
6 CYL	44V1	UP	7N3603, 7N3604		16
3306			VEHICULAR ENGINE, BRAZIL	1982	
6 CYL	47V8870	UP	2Y2574		18
6 CYL	47V15899	UP	2Y6445		19
6 CYL	47V15935	UP	2Y4510		22
3306			VEHICULAR ENGINE, BELGIUM	1973	
6 CYL	49V1	UP	6A7841		16
6 CYL	49V1	UP	5C5604, 5C6757, 5C6813		19
6 CYL	49V5536	UP	6A9730, 6A9733, 6A9734, 6A9735		19
6 CYL	49V19882	UP	5C5171, 5C5172, 5C5173		18



ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
G3306			NATURAL GAS ENGINE, U.S.	1978	
6 CYL	7Y3663	7Y3664	7N4315, 9Y7893		24
6 CYL	7Y4279		1029433, 1029435		24
6 CYL	7Y3663		7N6509, 9Y7892		25
6 CYL	7Y4279		1029434, 1029436		25
3306			VEHICULAR ENGINE, U.S.	1980	
6 CYL	8Z4882	UP	7C0501, 9C1426, 7N1188, 7N1211, 7N1212, 7N1398, 7N1399, 7N4978, 7N4980, 7N4981, 8N3169, 8N5376, 4P2971, 4P2973, 1W2630, 2W0818, 2W0819, 2W0820, 7W4102		21
					21
					21
					21
6 CYL	8Z33309	UP	7C2032, 7E0032, 7E0082, 7N1141, 7N1291, 7N1323, 6N3055, 6N5908, 7N2740, 7N5106, 8N3207, 1W0542, 1W0543, 1W0544, 1W0545, 1W1342, 1W1344, 1W1346, 1W3210, 1W3225, 1W3231, 7W4152, 7W9635, 9Y0032, 9Y2640, 9Y4951		23
					23
					23
					23
					23
3306B			VEHICULAR ENGINE, U.S.	1980	
6 CYL	8Z77420	8Z88101	1013023, 1082447, 1082448, 1082449, 1082450, 1135371, 1167557, 1167568, 1224210, 1235840, 1235841,		23A
					23A
					23A
3306			VEHICULAR ENGINE, JAPAN	1980	
6 CYL	10Z855	UP	1N4797, 1N4798, 1N4799, 1N4800, 1N4801		21
6 CYL	10Z2755	10Z9394	7C4447, 6N3055, 9Y9862		23
3306			VEHICULAR ENGINE, BELGIUM	1981	
6 CYL	13Z1	13Z1078	5C8756, 5C8757, 5C8759, 5C8760, 5C8761, 5C8762		21
6 CYL	13Z1121	13Z1998	5C8756, 5C8757, 5C8759, 5C8760, 5C8761, 5C8762		21
6 CYL	13Z6194	13Z9677	5C9442, 5C9937, 7C0501, 8N5376		21
6 CYL	13Z1	13Z3334	5C8590, 5C8751, 5C8760, 5C8761, 5C8762, 5C9442		23
3306B			VEHICULAR ENGINE, BELGIUM	1981	
6 CYL	13Z36792	13Z37929	4P2701, 1118040, 1167567, 1206603, 1229202,		23A
3306			VEHICULAR ENGINE, BRAZIL	1981	
6 CYL	60Z1	UP	2Y5175		18
6 CYL	60Z1	60Z2924	2Y6296, 2Y6297, 2Y6299, 2Y6500		19
3306			VEHICULAR ENGINE, U.S.	1981	
6 CYL	62Z1	62Z1146	1N4987		22
3306			TRUCK ENGINE, U.S.	1981	
6 CYL	63Z2106		4P6788		22
6 CYL	63Z1	UP	7C0879, 7C1520, 1W2506, 1W2509, 1W6010, 1W6011, 1W7293, 2W1850, 2W7382, 4W6601, 4W6602, 4W6603, 4W6604, 4W6605, 4W6606, 4W6607, 4W9328, 7W3104, 7W3110, 7W6511, 7W7478, 7W9354, 7W9355, 7W9356, 9Y0540, 7C2314, 7C4093, 7C4596, 7C4672, 7C4673, 7C4822		23
					23
					23
					23
					23
6 CYL	63Z4454	UP	7C5065, 7C5684, 7C5811, 7C5812, 7C5814, 7C6194, 7C6195, 7C6196, 7C6565, 7C6619, 7C6620, 7C6621, 7C7252, 7C7253, 7C7255, 7C7256, 7C7906, 7C9757, 7E1334, 7E1335, 7E1336, 7E1337, 7E5993, 7E9399, 7E9400, 9Y0137, 9Y0826, 9Y1292, 9Y4713, 9Y4714, 9Y4715, 9Y4716, 9Y4717, 9Y4852, 9Y4853, 9Y4854,		23
					23
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					23
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ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3306			TRUCK ENGINE, U.S.	1981	
6 CYL	63Z4454	UP	9Y4855, 9Y5382, 9Y6479, 9Y8109, 9Y8180, 9Y8181,		23
			9Y8182, 9Y8183, 9Y9225, 9Y9226, 9Y9227, 9Y9228,		23
			9Y9229, 9Y9230, 9Y9232, 9Y9233		23
3306B			TRUCK ENGINE, U.S.	1981	
6 CYL	63Z1	UP	1034352		23A
6 CYL	63Z12496	63Z21807	7C1520, 7C4673, 7C6192, 7C7255, 7C7256,		23A
			7E1334, 7E3373, 7E3374, 7E4303, 7E4304,		23A
			7E4305, 7E4306, 7E4307, 7E4308, 7E4309		23A
			7E4310, 7E4788, 7E5991, 7E5992, 7E6046,		23A
			7E7775, 7E9351, 7E9352, 7E9353, 7E9354,		23A
			7E9355, 7E9356, 7E9357, 7E9358, 7E9359,		23A
			7E9360, 7E9361, 7E9362, 7E9363, 7E9364,		23A
			7E9365, 7E9367, 7E9368, 7E9369, 7E9370,		23A
			7E9371, 7E9372, 7E9373, 7E9374, 7E9375,		23A
			7E9376, 7E9377, 7E9378, 7E9379, 7E9380,		23A
			7E9381, 7E9383, 7E9384, 7E9385, 7E9386,		23A
			7E9387, 7E9388, 7E9389, 7E9391, 7E9396,		23A
			4P6754, 4P6756, 4P6756, 4P6758, 4P6759,		23A
			4P6760, 4P6761, 4P6762, 4P6763, 4P6764,		23A
			4P6765, 4P6766, 4P6767, 4P6768, 4P6769,		23A
			4P6772, 4P6774, 4P6780, 4P6781, 4P6782,		23A
			4P6783, 4P6784, 4P6785, 4P6786, 9Y0826,		23A
			9Y4713, 9Y4714, 9Y4715, 9Y4716, 9Y4717,		23A
			9Y4718, 9Y4855, 9Y4952, 9Y4953, 9Y5382,		23A
			9Y7133, 9Y7134, 9Y7135, 9Y7136, 9Y7137,		23A
			9Y7138, 9Y7139, 9Y7568, 9Y8109, 9Y8180,		23A
			9Y8181, 9Y8182, 9Y8183, 9Y8219, 9Y9225,		23A
			9Y9226, 9Y9227, 9Y9228, 9Y9229, 9Y9230,		23A
			9Y9231, 9Y9232, 9Y9233,		23A
3306			INDUSTRIAL ENGINE, U.S.	1981	
6 CYL	64Z1	UP	1W3867, 1W3868		21
6 CYL	64Z1149	UP	7C2777, 7C6195, 7C6196, 7C6663, 1W3666,		23
			1W3668, 1W3815, 1W3822, 1W3823, 1W3824,		23
			1W3827, 1W3828, 1W3829, 1W3830, 1W3832,		23
			1W3836, 1W4505, 1W6795, 1W9155, 2W8242,		23
			4W0311, 4W4650, 4W9876, 7W2057, 7W2058,		23
			7W6577, 7W9145, 7W9146, 9Y9100, 9Y9101, 9Y9102		23
6 CYL	64Z19356		1290351		23A
3306			MARINE ENGINE, U.S.	1982	
6 CYL	84Z1	UP	1W3869, 1W3870, 7W1395		23
3306			GENERATOR SET, U.S.	1982	
6 CYL	85Z1	UP	7C1196, 7C7475, 1W3818, 1W3819, 1W9156,		23
			2W1738, 2W1742, 7W6918, 7W9159, 7W910		23
6 CYL	85Z2653	UP	7C1195		21
3406B			GENERATOR SET, U.S.	1983	
6 CYL	2WB1	2WB10066	7C1458, 7C2255, 7C2256, 7C2257, 7C2258, 4P1983,		33
			4P1984, 4P1985, 4P1986, 4P1987, 4P1988, 4P1989,		33
			4P1990, 4P9235, 4W3802, 4W3803, 4W3804		33

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3406B			GENERATOR SET, U.S.	1983	
6 CYL	2WB1	2WB10066	4W3805, 4W3806,		33
			4W3807, 4W3808, 4W3809, 4W3810, 4W3810, 4W3811,		33
			4W3812, 4W3813, 7W6920, 7W8536, 7W8537,		33
			9Y6226, 9Y6227, 9Y6228, 9Y8243, 9Y8244,		33
			9Y8245, 9Y8246, 9Y8247,		33
6 CYL	2WB12404	UP	1046376, 1046377		33
3406B			MARINE ENGINE, U.S.	1983	
6 CYL	4TB1	4TB2838	1W9373, 2W7067, 4W3800, 4W3801, 7W7264		33
6 CYL	4TB3045	UP	2W7067, 4W3800, 4W3801, 7W7264		33
6 CYL	4TB4382	UP	1109524, 1109525, 1109698, 1111514		33
3406B			INDUSTRIAL ENGINE, U.S.	1983	
6 CYL	6TB1	6TB8309	7C6614, 7C6764, 7C6765, 7C6842, 7C6843,		33
			7C7400, 7C7401, 4W3791,		33
6 CYL	6TB6476		7E1779, 7E1780, 7E1781, 7E1811, 7E2293, 7E2294,		36
			7E2295, 7E2296, 7E2362		36
			4W3792, 4W3793, 4W3794, 4W3796, 4W3797, 4W3798,		33
			4W3799, 4W6001, 4W6002, 4W6003, 4W6004, 4W6005,		33
			4W6006, 7W4640, 7W8649, 7W8650		33
3406B			TRUCK ENGINE, U.S.	1983	
6 CYL	7FB829	7FB27301	4W2007, 4W2352, 4W2353, 4W2354, 4W2355,		33
			4W2814, 4W2815, 4W2816, 4W2817, 4W2818,		33
			4W3607, 4W3608, 4W3712, 4W3713, 4W3769,		33
			4W3770, 4W3771, 4W3772, 4W3773, 4W3774,		33
			4W3775, 4W4017, 4W4025, 4W4026, 4W4045,		33
			4W4046, 4W4047, 4W4048, 4W4102, 4W4103, 4W4104,		33
			4W4105, 4W4106, 4W4107, 4W4108, 4W4109,		33
			4W4110, 4W4111, 4W4165, 4W4166, 4W4167,		33
			4W4168, 4W4169, 4W4170, 4W4171		33
6 CYL	7FB1693	7FB88552	4W4645, 4W7645, 4W7646, 4W9054, 4W9291, 4W9802,		33
			7W0047, 7W0048, 7W0132, 7W0248, 7W0437, 7W0895		33
6 CYL	7FB3217	7FB27301	7W0627, 7W0866, 7W1292, 7W1369, 7W1422,		33
			7W1423, 7W1424, 7W1425, 7W1426, 7W1755, 7W1906		33
6 CYL	7FB27302	7FB99999	2W6020, 2W6021, 2W6022, 2W6023, 2W6024,		35
			2W6026, 2W6027, 2W6028, 2W6029, 7W0041,		35
			7W2187, 7W5014, 7W5016, 7W5023, 7W5500,		35
			7W5807, 7W6008, 7W6009, 7W6010, 7W6011,		35
			7W6012, 7W6013, 7W6014, 7W6015, 7W6016,		35
			7W6017, 7W6018, 7W6019, 7W6020, 7W6021,		35
			7W6022, 7W6023, 7W6024, 7W6025, 7W6026,		35
			7W6027, 7W6028, 7W6029, 7W6127, 7W6128,		35
			7W6341, 7W6910, 7W6911, 7W7187, 7W7396, 7W7398		35
6 CYL	7FB12330	7FB52417	7W1996, 7W2187, 7W2427, 7W3147, 7W3341,		33
			7W3432, 7W3433, 7W3636, 7W3637, 7W3644,		33
			7W3931, 7W3932, 7W4202, 7W4209, 7W4220,		33
			7W4222, 7W5171, 7W5011, 7W5015, 7W5017,		33
			7W5021, 7W5022, 7W5024, 7W5027, 7W5029, 7W5502,		33
			7W5504, 7W5505, 7W5506, 7W5507, 7W5513, 7W5515,		33
			7W5755, 7W6342, 7W6343, 7W6688, 7W7161		33

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3406B			TRUCK ENGINE, U.S.	1983	
6 CYL	7FB31638	7FB99999	7W7384, 7W7385, 7W7395, 7W7396, 7W7397,		33
			7W7397, 7W7399, 7W8847, 7W8848, 7W8849,		33
			7W8976, 7W8977, 7W9227, 7W9228, 7W9229,		33
			7W9230, 7W9231, 7W9232, 7W9233, 7W9234,		33
			7W9235, 7W9236, 7W9237, 7W9238, 7W9752,		33
6 CYL	7FB36404	7FB99999	7C0467, 7C2110, 7W7348, 7W8768, 7W8917, 7W8925,		35
			7W8927, 7W8928, 7W8929, 7W8940, 7W8948, 7W9239,		35
			7W9240, 7W9181, 7W9378, 7W9411		35
			7W9483, 7W9751, 7W9753,		35
6 CYL	7FB44619	7FB75866	7C0159, 7C0160, 7C0164, 7C0167,		35
			7C0168, 7C0170, 7C0171, 7C0173, 7C0175		35
			7C0176, 7C0467, 7C2110,		35
			7C2718, 7C2874, 7C3216, 7C3217, 7C3625,		35
			7C3675, 7C3676, 7C3756,		35
			7C3189, 7C3201, 7C3204, 7C3206, 7C3209, 7C3210,		35
			7C3215, 7C3669, 7C3670, 7C3674, 7C3680, 7C3681,		35
			7C3682, 7C4007, 7C4026, 7C4100, 7C4277, 7C4278, 7C4583,		35
			7C4722, 7C4723, 7C4761, 7C4762, 7C4847, 7C4850, 7C4851,		35
			7C5397, 7C5558, 7C5680, 7C5879, 7C6096, 7C6160, 7C6413,		35
			7C6414, 7C6420, 7C6421, 7C6630, 7C6631, 7C6634, 7C6638,		35
			7C6639, 7C6673, 7C6674, 7C6675, 7C6676,		35
			7C7042, 7C7043, 7C7092, 7C7095, 7C7096		35
			7C7097, 7C7111, 7C7112, 7C7169, 7C7637,		35
			7C7641, 7C7642, 7C7643, 7C7644, 7C7660,		35
			7C8228, 7C9042, 7C9515, 7C9700,		35
			9Y0331, 9Y0332, 9Y0601, 9Y0602, 9Y1001,		35
			9Y1291, 9Y1636, 9Y3422,		35
6 CYL	7FB42799	7FB99867	7W5022, 7W9227, 7W9228, 7W9230, 7W9231,		33
			7W9233, 7W9234, 7W9235, 7W9236, 7W9237,		33
			7W9238, 7C0134, 7C0135, 7C0136, 7C0137,		33
			7C0139, 7C0140, 7C0142, 7C0143, 7C0144,		33
			7C0146, 7C0147, 7C0148, 7C0149, 7C0150,		33
			7C0151, 7C0152, 7C0153, 7C0154, 7C0155,		33
			7C0156, 7C0157, 7C0158, 7C0161, 7C0177, 7C0178,		33
			7C0179, 7C0180, 7C0181, 7C0468, 7C0745,		33
			7C0746, 7C2717, 7C3207, 7C3049		33
6 CYL	7FB47624	7FB99999	7C3050, 7C3051, 7C3197, 7C3198, 7C3200, 7C3202,		33
			7C3203, 7C3205, 7C3207, 7C3211, 7C3212, 7C3213,		33
			7C3214, 7C3367, 7C3368,		33
			7C3369, 7C3370, 7C3620, 7C3621, 7C3622, 7C3623,		33
			7C3624, 7C3671, 7C3672, 7C3677, 7C3678, 7C3679,		33
			7C3683, 7C3684, 7C3685, 7C3686, 7C3687, 7C3688, 7C3754,		33
			7C3755, 7C3757, 7C3893, 7C4027, 7C4276, 7C4277, 7C4279,		33
			7C4280, 7C4339, 7C4584, 7C4585, 7C4848, 7C4849, 7C4852,		33
			7C4987, 7C4988, 7C5557, 7C5559, 7C5560, 7C5820, 7C5821,		33
			7C5821, 7C6023, 7C6041, 7C6042, 7C6158, 7C6159,		33
			7C6210, 7C6415, 7C6416, 7C6417, 7C6418, 7C6419,		33
			7C6603, 7C6632, 7C6635, 7C6636, 7C6637,		33
			7C6643, 7C6677, 7C6678, 7C6679, 7C6680,		33



ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3406B			TRUCK ENGINE, U.S.	1983	
6 CYL	7FB47624	7FB99999	7C7039, 7C7040, 7C7041, 7C7044, 7C7098, 7C7099,		33
			7C7100, 7C7101, 7C7102, 7C7103, 7C7104, 7C7105,		33
			7C7106, 7C7107, 7C7108, 7C7109, 7C7170, 7C7171,		33
			7C7617, 7C7647, 7C7648, 7C7649, 7C7650, 7C7651,		33
			7C7652, 7C7653, 7C7654, 7C7804, 7C7805, 7C7927,		33
			7C8656, 7C9428, 7C9430, 7C9432, 7C9433, 7C9434,		33
			7C9438, 7C9439, 7C9440, 7C9441, 7C9442, 7C9443,		33
			7C9444, 7C9445, 7C9508, 7C9509, 7C9510, 7C9512,		33
			7C9513, 7C9514, 7C9516, 7C9517, 7C9518, 7C9519,		33
			7C9520, 7C9521, 7C9693, 9Y0603, 9Y0188, 9Y1290,		33
			9Y1374, 9Y1637,		33
3406B			TRUCK ENGINE, U.S.	1987	
6 CYL	8TC1	8TC1308	7C3902, 7C3903		35
6 CYL	8TC988	8TC1380	7C9011, 7C9012, 7C9015, 7C9016		35
6 CYL	8TC1001		9Y0854		33
6 CYL	8TC1095	8TC1317	9Y1656, 9Y1657, 9Y1659, 9Y1937		35
6 CYL	8TC1096	8TC1412	9Y2769		35
6 CYL	8TC1413	8TC14236	9Y2264, 9Y2265, 9Y2301, 9Y2302, 9Y2385,		38
			9Y2387, 9Y2391, 9Y2480, 9Y2481, 9Y2482		38
			9Y2550, 9Y2553, 9Y2554, 9Y5744, 9Y6057,		38
			9Y6233, 9Y6234, 9Y6235, 9Y6236, 9Y6237,		38
			9Y6238, 9Y6239, 9Y6240, 9Y6241, 9Y6242,		38
			9Y7000, 9Y7548, 9Y7719, 9Y7779, 9Y7881,		38
			9Y7882, 9Y8538, 9Y9500, 9Y9501, 9Y9502,		38
			9Y9503, 9Y9504, 9Y9505, 9Y9574, 9Y9577,		38
3406B			TRUCK ENGINE, U.S.	1987	
6 CYL	8TC1413	8TC14412	9Y2266, 9Y2267, 9Y2268, 9Y2269, 9Y2270, 9Y2304,		36
			9Y2305, 9Y2306, 9Y2307, 9Y2386, 9Y2389,		36
			9Y2390, 9Y2392, 9Y2393, 9Y2394, 9Y2469,		36
			9Y2470, 9Y2471, 9Y2472, 9Y2473, 9Y6243,		36
			9Y2474, 9Y2475, 9Y2476, 9Y2477, 9Y2478, 9Y2479,		36
			9Y2484, 9Y2485, 9Y2486, 9Y2487, 9Y2488,		36
			9Y2515, 9Y2516, 9Y2519, 9Y2520, 9Y2532, 9Y2548,		36
			9Y2549, 9Y2557, 9Y5606, 9Y6058, 9Y6059, 9Y6198,		36
			9Y6235, 9Y6236, 9Y6237, 9Y6238, 9Y6239, 9Y6240,		36
			9Y6244, 9Y6245, 9Y6246, 9Y6522, 9Y7345, 9Y7346,		36
			9Y7349, 9Y7350, 9Y7558, 9Y7885, 9Y9519, 9Y9521		36
			9Y7549, 9Y7550, 9Y9524, 9Y9525, 9Y9578		36
			9Y9525, 9Y9524, 9Y9578		36
6 CYL	8TC6476	8TC14485	7E0833, 7E2151, 7E2152, 7E2153, 7E2155, 7E2159,		36
			7E2223, 7E5222, 7E5228, 7E5281, 7E5283, 7E5284,		36
			7E6096, 7E7320, 7E9069		36
3406B			TRUCK ENGINE, U.S.	1987	
6 CYL	8TC10981	8TC14489	4P0757, 4P0810, 4P0814, 4P0815, 4P0819, 4P0820,		36
			4P0828, 4P0830, 4P0838, 4P3584, 4P3585, 4P3590		36
6 CYL	8TC2108	8TC5438	9Y8057		38
6 CYL	8TC2468	8TC10841	9Y2550, 9Y2553, 9Y2554, 9Y5744		38

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3406B			TRUCK ENGINE, U.S.	1987	
6 CYL	8TC2914	8TC14446	9Y6233,9Y6234,9Y6241,9Y6242,9Y7000, 9Y7343,9Y7548,9Y7719,9Y7779,9Y7881, 9Y7882,9Y9574,9Y9577		38
6 CYL	8TC5673	8TC9633	7E0943,7E1777,7E1778,9Y2501,9Y2502, 9Y2503,9Y2504,9Y2505,9Y8538		38
6 CYL	8TC6033	8TC9163	9Y9500,9Y9501,9Y9502,9Y9503,9Y9504, 9Y9505,		38
6 CYL	8TC8565	8TC12216	7E2120,7E2121,7E2122,7E2144,7E2148, 7E2208,7E2291,7E2292,7E3862,7E4924		38
6 CYL	8TC10613	8TC13995	4P0850,4P1442,4P2164,4P2577,4P3365		38
6 CYL	8TC10981	8TC14419	4P0755,4P0756,4P0813,4P0816,4P0817		38
3406B			TRUCK ENGINE, U.S.	1987	
6 CYL	4MG1	4MG1183	7W0047,7W1425,7W1426,7W3931,7W3932, 7W4209,7W4222,7W5024,7W7384,7W7395		33
6 CYL	4MG1	4MG2316	7W8849		33
6 CYL	4MG1	4MG5847	4W4047,4W4103,4W4105,4W4106,4W4108, 4W4111,4W4166,4W4167,7C0134,7C0135, 7C0136,7C0137,7C0139,7C0140,7C0143, 7C0148,7C0150,7C0151,7C0153,7C0154, 7C0155,7C0157,7C0177,7C0178,7C0179, 7C0180,7C0181,7C0745,7C0746,7C3049, 7C3050,7C3367,7C3368,7C3369,7C3370, 7C3620,7C3621,7C3622,7C3623,7C3624, 7C3671,7C3677,7C3754,7C3755,7C3893, 7C4276,7C4279,7C4280,7C4339,7C4585, 7C4849,7C4852,7C4988,7C5821,7C5822, 7C6041,7C6158,7C6159,7C6210,7C6417, 7C6418,7C6419,7C6603,7C6677,7C6678, 7C6679,7C6680,7C6681,7C6682,7C6683, 7C6684,7C6685,7C7039,7C7044,7C7098, 7C7099,7C7100,7C7101,7C7102,7C7103, 7C7104,7C7105,7C7106,7C7107,7C7108, 7C7109,7C7171,7C7617,7C7647,7C7648, 7C7649,7C7650,7C7651,7C7652,7C7653, 7C7654,7C7804,7C7805,7C7927,7C9429, 7C9432,7C9433,7C9434,7C9438,7C9439, 7C9440,7C9441,7C9442,7C9443,7C9444, 7C9445,7C9508,7C9509,7C9510,7C9512, 7C9513,7C9514,7C9516,7C9517, 7W9234,9Y0188,9Y0988,9Y1637		33
6 CYL	4MG1	4MG3599	7C0467,7C2718,7C3674,7C4277,7C4762, 7C4847,7C4850,7C5397,7C6096,7C6160, 7C6413,7C6414,7C6420,7C6631,7C6634, 7C6638,7C6639,7C6673,7C6674,7C6675, 7C6676,7C7092,7C7095,7C7096,7C7097, 7C7111,7C7637,7C7641,7C7642,7C7643, 7C7644,7W5016,7W5023,7W6012,7W6014, 7W6019,7W6021,7W6022,7W6023,7W6025,		35

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3406B			TRUCK ENGINE, U.S.	1987	
6 CYL	4MG1	4MG3599	7W6027, 7W6028, 7W6029, 7W6910, 7W7396,		35
			7W8768, 7W8917, 7W8928, 7W8948, 7W9751,		35
			7W9753, 9Y0602, 9Y3422		35
6 CYL	4MG3600	4MG12264	7C6631, 7C6638, 7C7092, 7C7095, 7C7097,		38
			7C7620, 7C7637, 7C7643, 7C7644,		38
			7C7652, 7C7653, 7C7654,		36
6 CYL	4MG12265	4MG70268	9Y2558, 9Y6056,		36
6 CYL	4MG3600	UP	7C7098, 7C7099, 7C7100, 7C7102, 7C7104, 7C7106,		36
			7C7107, 7C7108, 7C7109, 7C7169, 7C7170, 7C7171,		36
			7C7621, 7C7622, 7C7623, 7C7649, 7C7651, 7C9434,		36
			9Y2317, 9Y2318, 9Y2319, 9Y2320, 9Y2321, 9Y2322,		36
			9Y2323, 9Y2329, 9Y2330, 9Y2331, 9Y2332, 9Y2334,		36
			9Y2335, 9Y2336, 9Y2337, 9Y2338, 9Y2345, 9Y2345,		36
			9Y2347, 9Y2348, 9Y2353, 9Y2354, 9Y2355, 9Y2356,		36
			9Y2357, 9Y2358, 9Y2359, 9Y2360, 9Y2361, 9Y2362,		36
			9Y2363, 9Y2364, 9Y2371, 9Y2372, 9Y2373, 9Y2374,		36
			9Y2375, 9Y2376, 9Y2377, 9Y2378, 9Y2379, 9Y2380,		36
			9Y2381, 9Y2382, 9Y2384, 9Y2399, 9Y2400, 9Y2401,		36
			9Y2402, 9Y2404, 9Y2405, 9Y2406, 9Y2407, 9Y2408,		36
			9Y2409, 9Y2413, 9Y2414, 9Y2415, 9Y2416, 9Y2418,		36
			9Y2419, 9Y2420, 9Y2421, 9Y2422, 9Y2423, 9Y2424,		36
			9Y2425, 9Y2426, 9Y2427, 9Y2428, 9Y2433, 9Y2434,		36
			9Y2435, 9Y2436, 9Y2437, 9Y2438, 9Y2439, 9Y2440,		36
			9Y2441, 9Y2442, 9Y2443, 9Y2444, 9Y2445, 9Y2446,		36
			9Y2447, 9Y2448, 9Y2449, 9Y2451, 9Y2452, 9Y2453,		36
			9Y2454, 9Y2455, 9Y2456, 9Y2457, 9Y2458, 9Y2459,		36
			9Y2460, 9Y2461, 9Y2462, 9Y2463, 9Y2464, 9Y2490,		36
			9Y2491, 9Y2493, 9Y2494, 9Y2495, 9Y2496, 9Y2497,		36
			9Y2498, 9Y2499, 9Y2500, 9Y2503, 9Y2504, 9Y2505,		36
			9Y2506, 9Y2507, 9Y2508, 9Y2509, 9Y2510, 9Y2511,		36
			9Y2512, 9Y2513, 9Y2514, 9Y2521, 9Y2526, 9Y2527,		36
			9Y2528, 9Y2530, 9Y2531, 9Y2533, 9Y2534, 9Y2535		36
6 CYL	4MG3600	4MG12265	9Y2538, 9Y2539, 9Y2540, 9Y2542, 9Y2543		36
6 CYL	4MG34834	4MG35538	7E0895, 7E1766, 7E1767, 7E1768, 7E1795,		38
			7E1796, 7E1797		38
6 CYL	4MG15326	4MG52924	9Y1303, 9Y2309, 9Y2310, 9Y2311, 9Y2313, 9Y2316,		36
			9Y2333, 9Y2346, 9Y2450, 9Y2529, 9Y2536, 9Y2544,		36
			9Y2545, 9Y2546, 9Y2547, 9Y2552, 9Y2556, 9Y2557,		36
			9Y2559, 9Y2560, 9Y5239, 9Y5745, 9Y6165, 9Y6195,		36
			9Y6196, 9Y6197, 9Y6199, 9Y6249, 9Y6250, 9Y6251,		36
			9Y6252, 9Y6253, 9Y6254, 9Y6255, 9Y6256, 9Y6257,		36
			9Y6258, 9Y7341, 9Y7342, 9Y7344, 9Y7347, 9Y7531,		36
			9Y7532, 9Y7533, 9Y7534, 9Y7535, 9Y7536, 9Y7537,		36
			9Y7538, 9Y7539, 9Y7540, 9Y7541, 9Y7542, 9Y7543,		36
			9Y7544, 9Y7545, 9Y7546, 9Y7547, 9Y7884, 9Y7886		36
			9Y8065, 9Y8066, 9Y8714, 9Y8715, 9Y8716, 9Y8717,		36
			9Y8790, 9Y8791, 9Y8792, 9Y8793, 9Y8794, 9Y9180,		36
			9Y9181, 9Y9498, 9Y9520, 9Y9526, 9Y9527, 9Y9528,		36
			9Y9573, 9Y9575, 9Y9581, 9Y9582, 9Y9962, 9Y9964,		36

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3406B			TRUCK ENGINE, U.S.	1987	
6 CYL	4MG15326	4MG52924	9Y9965,9Y9967		36
6 CYL	4MG33881	4MG78372	9Y9529,9Y9963		38
6 CYL	4MG8244	4MG79522	7E0834,7E0835,7E1769,7E1770,7E1771,		36
			7E1772,7E1773,7E1774,7E1775,7E1780,,7E1798,		36
			7E1799,7E1800,7E1801,7E1802,7E1803,7E1804,		36
			7E1805,7E1806,7E1807,7E1808,7E1809,7E1810,		36
			7E1811,7E2123,7E2125,7E2127,7E2129,7E2142,		36
			7E2143,7E2161,7E2162,7E2166,7E2218,7E2220,		36
			7E2222,7E2267,7E2174,7E2217,7E2226,7E2231,		36
			7E2232,7E2233,7E2277,7E2278,7E2279,7E2280,		36
			7E2281,7E2282,7E2283,7E2284,7E2285,7E2286,		36
			7E2287,7E2288,7E2289,7E2294,7E2295,7E2296,		36
			7E2356,7E2357,7E2358,7E2361,7E2363,7E2393,		36
			7E2394,7E2396,7E3224,7E3236,7E3237,7E3238,		36
			7E3239,7E3262,7E3861,7E5111,7E5171,7E5221,		36
			7E5224,7E5226,7E5227,7E5230,7E5231,7E5232,		36
			7E5277,7E5279,7E5280,7E5281,7E5283,7E5284,		36
			7E5352,7E5566,7E5568,7E5570,7E5572,7E6094,		36
			7E6095,7E6096,7E6129,7E6130,7E6131,7E6132,		36
			7E6133,7E6145,7E6147,7E6150,7E6888,7E7313,		36
			7E7316,7E7317,7E7318,7E7320,7E7321,7E7548,		36
			7E9140,7E9143,7E9146,7E9157,7E9230,7E9232,		38
			7E9234,7E9235,7E9236,7E9237,7E9238,7E9239,		36
			7E9816		36
6 CYL	4MG53371	4MG83227	7E0943,7E1777,7E1778,7E1875,7E2120,,		38
			7E2121,7E2122,7E2124,7E2128,7E2148,		38
			7E2160,7E2167,7E2168,7E2169,7E2208,		38
			7E2215,7E2276,7E2291,7E2292,7E2395,7E2551,		38
			7E3862,7E4787,7E4924,7E5276,7E5565,7E5587,		38
			7E6151,7E7314,7E7551,7E7682,7E8515,7E9233		38
6 CYL	4MG765	4MG83461	7E9502,9Y1302,9Y2264,9Y2264,9Y2308,9Y2309,		38
			9Y2314,9Y2315,9Y2324,9Y2326,9Y2327,9Y2341,		38
			9Y2342,9Y2343,9Y2344,9Y2350,9Y2351,9Y2352,		38
			9Y2366,9Y2368,9Y2369,9Y2370,9Y2383,9Y2395,		38
			9Y2396,9Y2397,9Y2398,9Y2403,9Y2410,9Y2411,		38
			9Y2412,9Y2417,9Y2429,9Y2430,9Y2431,9Y2432,		38
			9Y2465,9Y2466,9Y2467,9Y2468,9Y2480,9Y2489,		38
			9Y2492,9Y2501,9Y2502,9Y2522,9Y2523,9Y2524,		38
			9Y2525,9Y2537,9Y2541,9Y2551,9Y2555,9Y5510,		38
			9Y5742,9Y5743,9Y6055,9Y6194		38
6 CYL	4MG18250	4MG83593	9Y6247,9Y6248,9Y6253,9Y6254,9Y7340,		38
			9Y7527,9Y7529,9Y7530,9Y7700,9Y7878,		38
			9Y7879,9Y7880,9Y7883		38
6 CYL	4MG10981	4MG14419	4P0755,4P0756,4P0813,4P0816,4P0817		38
			4P0850,4P1442,4P2164,4P2577,4P3365		38
6 CYL	4MG3600	4MG10918	4W2007,4W3607,4W3608,4W3713,4W4017,		33
			4W4103,4W4105		33
6 CYL	4MG83945	4MG99999	4P0694,4P0695,4P0696,4P0760,4P0761,4P0762,		36
			4P0766,4P0767,4P0768,4P0769,4P0782,4P0784,		36

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
FROM:	TO:				
3406B			TRUCK ENGINE, U.S.	1987	
6 CYL	4MG83945	4MG99999	4P0800,4P0803,4P0829,4P0832,4P0838,4P3589		36
			4P3592,4P3593,4P3696,4P4481,4P4482,4P4919		36
3406B			TRUCK ENGINE, U.S.	1990	
6 CYL	5KJ1	5KJ7799	7E1773,7E1802,7E1803,7E1804,7E1805,		36
			7E2218,7E2280,7E2281,7E2282,7E3236		36
			7E3237,7E3238,7E3239,7E5224,7E5283,		36
			7E6131,7E6894,7E9143,4P0894,4P0895,		36
			4P0761,4P0766,4P0768,4P0769,4P0800,		36
			4P0838,4P0839,4P3589,4P3592,4P4481,		36
			4P4482,4P4919,9Y2312,9Y2322,9Y2360,		36
			9Y2361,9Y2380,9Y2406,9Y2418,9Y2419		36
			9Y2420,9Y2441,9Y2442,9Y2453,9Y2454,		36
			9Y2491,9Y2497,9Y2498,9Y2507,9Y2508,		36
			9Y2509,9Y2510,9Y2539,9Y2540,9Y2544,		36
			9Y6251,9Y6252,9Y7838,9Y7539,9Y7540,		36
			9Y7541,9Y7542,		36
3406B			GENERATOR SET, U.S.	1991	
6 CYL	4JK1	UP	6I0368,7N3516		33
3406B			VEHICULAR ENGINE, U.S.	1990	
6 CYL	11N1	UP	4P7980		33
3406B			GENERATOR SET, U.S.		
6 CYL	4RG318	4RG1175	7E1171,9Y1547,9Y1548		33
3406B			GENERATOR SET, U.S.		
	4ZR1	UP	1287025,1287027,1287029,1336057		33
3406C			GENERATOR SET, U.S.		
6 CYL	8FS1	UP	1414663		33
3406C			MARINE AUX/ GEN SET		
	1SS1	UP	1315405,1315406		33
3406			INDUSTRIAL ENGINE, U.S.	1973	
6 CYL	90U439		4N4238,6N0458,6N0459,4N0460,6N3268,6N3300,		31
			6N4995,6N4996,6N5817		31
6 CYL	90U440	90U452	6N3300		31
6 CYL	90U469		6N5817		31
6 CYL	90U2331	90U4105	4N0758,4N4238,6N0458,6N0459,6N0460		31
			6N3268,6N4126,6N4127,6N4995,6N4996		31
6 CYL	90U440	90U513	6N3301		29
6 CYL	90U514		6N5020		34
6 CYL	90U2331	90U5279	4N2238,6N3267,6N4997,6N4998,6N4999,6N9954,		34
			6N5000,6N5001		34
6 CYL	90U5280	90U6453	4N2238,6N3267,6N4997,6N4998,6N4999,6N5000,		32
			6N5001,6N9954		32
6 CYL	90U5564	90U7101	4N4238,6N0458,6N0459,6N0460,6N3268,6N4995,		30
			6N4996,7N7701		30
6 CYL	90U14043	90U29990	7N3516,9N3944,9N3945,9N3946,9N3947		32
6 CYL	90U23598	UP	9N5513,9N5514		30
6 CYL	90U19731	90U23612	7N3519,9N3941,9N3942,9N3943,7W7013		30

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3406			INDUSTRIAL ENGINE, U.S.	1975	
6 CYL	90U19593		2W6067		33
6 CYL	90U28693	UP	9N6205, 9N6206, 9N6207, 9N6208, 9N6209, 9N6210		32
3406			MARINE ENGINE, U.S.	1973	
6 CYL	91U1	91U736	4N2239, 4N4239		31
6 CYL	91U123	91U128	6N3300		31
6 CYL	91U136		6N5817		31
6 CYL	91U862	91U912	7N2617		34
6 CYL	91U737	91U1123	4N2239, 4N4239		30
6 CYL	91U2601		2W1900		33
3406			TRUCK ENGINE, U.S.	1973	
6 CYL	92U1	92U2700	9N0002, 9N0003, 9N0004, 9N0006, 9N0008		31
6 CYL	92U1	92U2700	9L6270, 9L6677, 9N0001, 9N0005, 9N0007, 9N0009		29
			9N0509		29
6 CYL	92U2701	92U2954	6N3300		31
6 CYL	92U2701	92U3186	6N3301		29
6 CYL	92U3187		6N5020		34
6 CYL	92U6507	92U11676	9N0002, 9N0003, 9N0004, 9N0006, 9N0008, 9N2091, 9N2092, 9N2280, 9N2290, 9N2291		31
6 CYL	92U6506	92U14047	9N0001, 9N0005, 9N2090, 9N2169, 9N2170, 9N2171, 9N2615, 9N2627, 9N2628, 9N2629, 9N2900, 9N2901, 9N3293, 9N3807, 9L6270, 9L6677		34
6 CYL	92U10456	92U14048	9N2291, 9N3290, 9N3291, 9N3292, 9N3293, 9N3294, 9N3295		31
6 CYL	92U11677	92U18037	9N0002, 9N0003, 9N0004, 9N0006, 9N0008, 9N2091, 9N2092, 9N2290, 9N2291, 9N3290, 9N3294, 9N3295, 9N3802, 9N3803, 9N3805, 9N3810, 9N3812, 9N3940, 9N3941, 9N3942, 9N3943		30
6 CYL	92U11730	92U11832	9N0002, 9N0003, 9N0004, 9N0006, 9N0008, 9N2091, 9N2092, 9N2290, 9N2291		31
6 CYL	92U14048	92U16577	9N0001, 9N0005, 9N2628, 9N2629, 9N2900, 9N3291, 9N3293, 9N3800, 9N3801, 9N3804, 9N3807, 9N3817, 9N3818, 9N3819, 9N3820, 9N3821, 9N3822, 9N3823, 9N3944, 9N3945, 9N3946, 9N3947, 9N3948, 9N3949, 9N3950, 9N3951, 9N3952, 9N3811		32
6 CYL	92U17630		9N3811		32
6 CYL	92U23221	UP	9N5525		30
6 CYL	92U28868	UP	9N3800, 9N3801, 9N3806, 9N3808, 9N3809, 9N3822, 9N3825, 9N9005, 9N5501, 9N5505, 9N5506, 9N5507, 9N5515, 9N5516, 9N5517, 9N5518, 9N5522, 9N6193, 9N6194, 9N6195, 9N6196, 9N6199, 9N6200, 9N6201, 9N6202, 9N6203, 9N6204, 9N6211, 9N6212, 9N6213, 9N6214, 9N6264, 9N6265, 9N6266, 9N6268, 9N6273, 9N6396, 9N6457, 9N6458, 9N6459, 9N6460, 9N6461, 9N6462, 9N6463, 9N6464		32
6 CYL	92U29991	92U99999	9N6465, 9N6467, 9N6468, 9N6469, 9N6470, 1W2432, 1W2433, 1W2440, 1W2441, 1W2442, 1W4177, 1W4179, 1W4180, 1W4995, 1W4996,		32

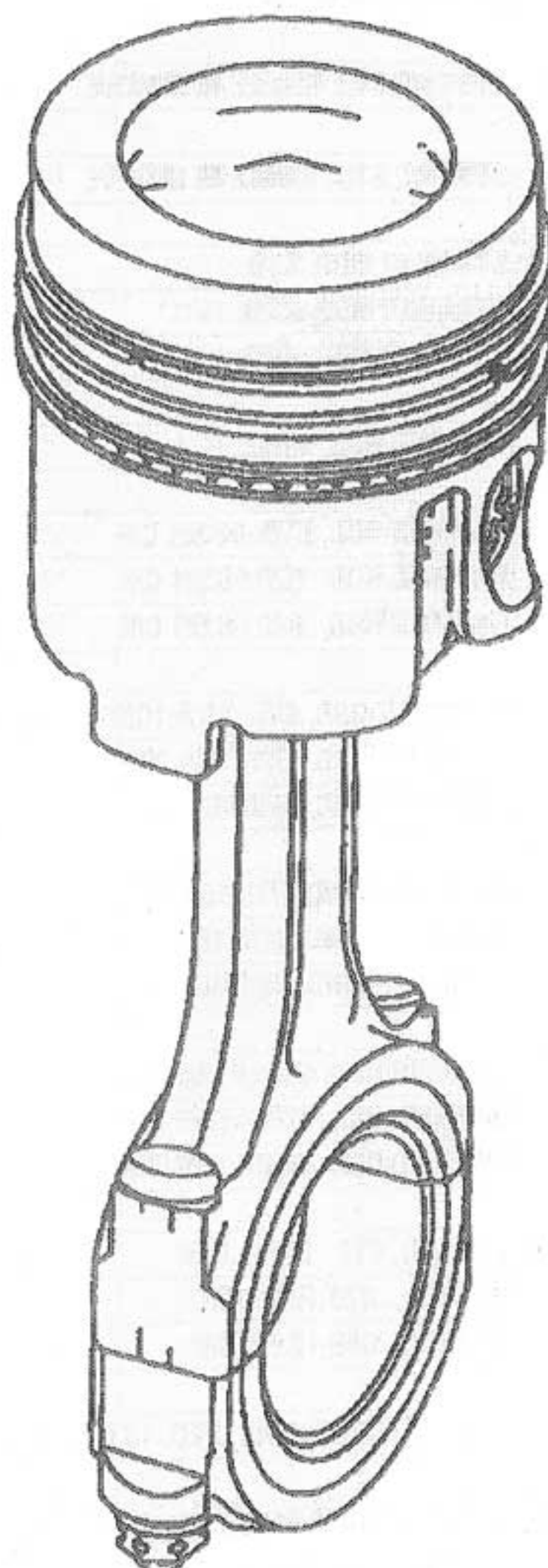
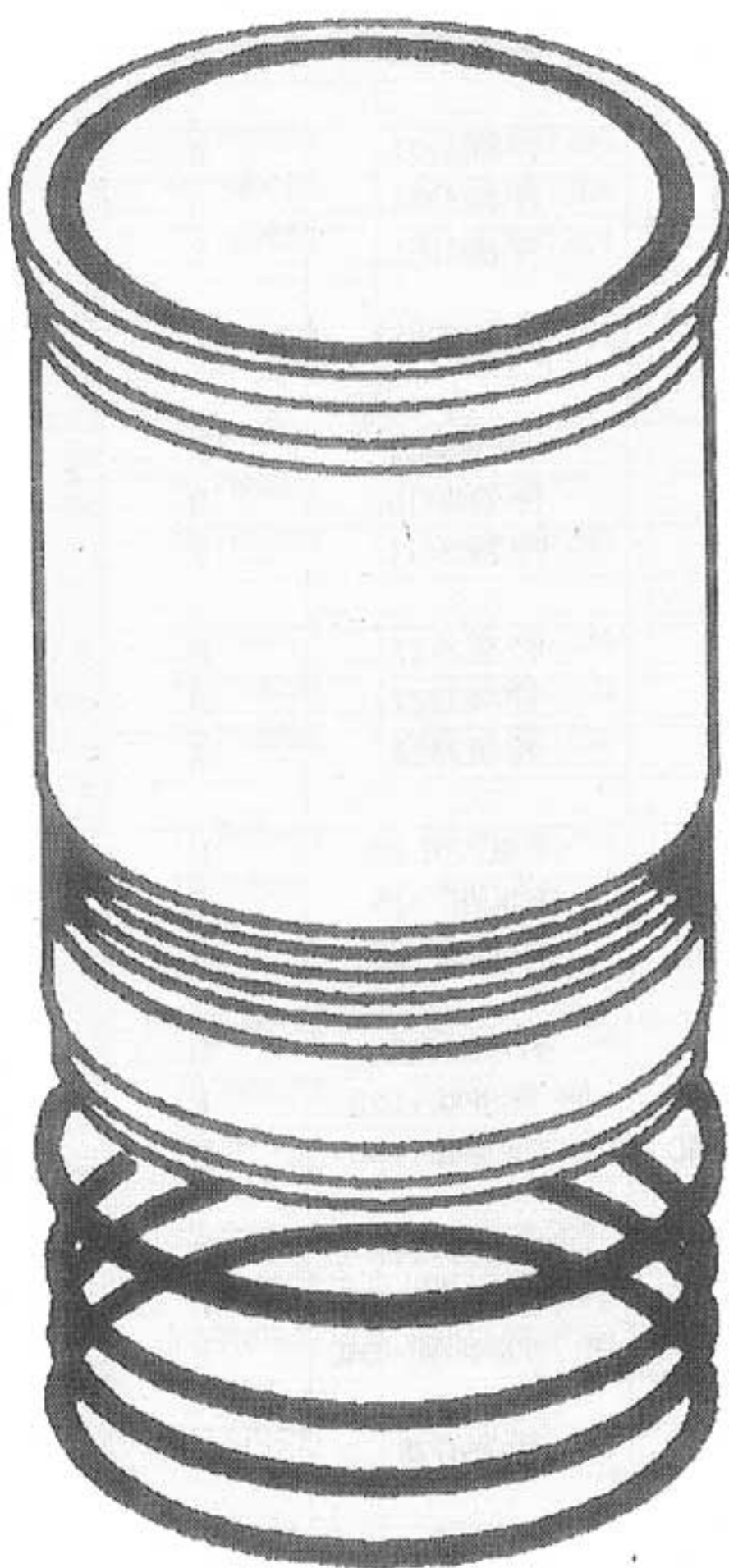
ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3406			TRUCK ENGINE, U.S.	1973	
6 CYL	92U29991	92U99999	1W5997,1W7295,1W7941,1W7943,1W7951,1W7952, 1W7957,1W7978,1W7979,1W7980,2W1729,4W2298		32
6 CYL	92U29991	UP	9N3811,9N3822,9N3824,9N5515,9N5516,9N5517, 9N5522,9N5523,9N6193,9N6196,9N6197,9N6198, 9N6199,9N6200,9N6201,9N6212,9N6213,9N6253, 9N6254,9N6255,9N6256,9N6257,9N6258,9N6259, 9N6260,9N6261,9N6262,9N6263,9N6264,9N6265, 9N6266,9N6267,9N6269,9N6270,9N6271,9N6272, 9N6273,9N6396,9N6458,9N6460,9N6461,9N6462, 9N6463,9N6464,9N6465,9N6466,9N6467,9N6468, 9N6469,9N6470,1W2432,1W2433,1W2434,1W2435, 1W2436,1W2438,1W2439,1W2440,1W2441,1W2442, 1W2443,1W2444,1W2445,1W2446,1W4177,1W4178, 1W4179,1W4180,1W4995,1W4996,1W4997,1W5997, 1W7695,1W7696,1W7697,1W7698,1W7699,1W7700, 1W7701,1W7901,1W7902,1W7903,1W7905,1W7941, 1W7943,1W7944,1W7945,1W7946,1W7947,1W7648, 1W7949,1W7950,1W7952,1W7953,1W7954,1W7955, 1W7956,1W7957,1W7958,1W7959,1W7977,1W7980, 1W9701,1W9702,1W9703,1W9704,1W9705,1W9706, 1W9845,1W9846,2W1729,2W1866,2W5761		33
6 CYL	92U62057	92U63056	2W3471,2W3472,2W3473,2W3474,4W2297,4W2298		33
3406			VEHICULAR ENGINE, U.S.	1976	
6 CYL	70V1		9Y0222		33
6 CYL	70V1	70V3286	4N0758,4N2250,4N2252,4N2255,6N3300,6N5817		31
6 CYL	70V4105		7N2400		34
6 CYL	70V4208	70V16533	7N3516,8N5465,2W0833		33
6 CYL	70V15296	UP	7N3516,8N5465,2W0833		33
6 CYL	70V3279	70V4208	4N2252,4N2255,9N2280		31
6 CYL	70V4168	70V4182	4N2252,4N2255,7N3519		30
6 CYL	70V4209	70V5741	4N2252,4N2255		30
6 CYL	70V4663	70V5234	6N2069,6N2222,6N2585,7N2400		32
6 CYL	70V5742	70V8785	7N3519		30
6 CYL	70V16376	70V20135	1W1428,1W1440,1W6293,2W1004,7W5178		33
6 CYL	70V21758	70V34653	7E3421,1W6904,2W2652,4W9497,9Y1265,9Y1778		33
3406			GENERATOR SET, U.S.	1981	
6 CYL	75Z1597	75Z1769	2W0833,2W6675,2W6676,2W6677,2W6678,2W6679,2W6680		33
3408			INDUSTRIAL ENGINE, U.S.	1976	
8 CYL	67U1	67U738	6N1148,6N1149,6N3488,6N9727		31
8 CYL	67U739	67U759	6N1149,6N1150,6N1151,6N3488,6N6898,6N6990 6N9727		30
8 CYL	67U742	67U757	6N1148		30
8 CYL	67U760	67U796	6N1149,6N1150,6N1151,6N6898,6N6990,6N9727		31
8 CYL	67U797	67U2704	6N1148,6N1149,6N3488,6N9727		30
8 CYL	67U1015	67U2704	7N7040,7N7703		30
8 CYL	67U1716	67U2704	7N7702,7N7706		30
8 CYL	67U2792		8N3904,8N3905,8N3907,8N3909,8N3910,8N3911		30
8 CYL	67U4805		8N3895		30

ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3408			INDUSTRIAL ENGINE, U.S.	1976	
8 CYL	67U1716	67U4867	4N2242,6N1884,6N1885,6N3487,6N6897,6N6989, 6N9728,7N7039,7N7704,8N3900,8N3901,8N3902, 8N3903,8N3906,8N3908		37
8 CYL	67U1	67U1712	4N2242,6N1884,6N1885,6N3487,6N6897,6N6989		38
8 CYL	67U1150	67U1719	7N7039,8N6121		38
3408			MARINE ENGINE, U.S.	1976	
8 CYL	99U1		6N1152		39
8 CYL	99U1	99U893	4N2243		31
8 CYL	99U894	99U902	4N2243		30
8 CYL	99U903	99U906	4N2243		31
8 CYL	99U907	99U2011	4N2243		30
8 CYL	99U1256	99U2807	6N1152		37
8 CYL	99U2739	99U2807	8N6663		37
8 CYL	99U4238	UP	2W6101		38
8 CYL	99U6825		7C6039,4W4000,4W8050,7W7583		38
3408			TRUCK ENGINE, U.S.	1976	
8 CYL	28V1		9N0801,9N0805		39
8 CYL	28V1	28V809	9N0802,9N0804		31
8 CYL	28V810		9N0802,9N0804		30
8 CYL	28V811		9N0802,9N0804		31
8 CYL	28V815		9N0902,9N0804		31
8 CYL	28V816		9N0802,9N0804		30
8 CYL	28V2243	28V2244	9N5226,9N5227		30
8 CYL	28V1113	28V3354	9N0801,9N0805		37
8 CYL	28V2048	28V3354	9N3980,9N3981		37
8 CYL	28V2255	28V3354	9N5229		37
8 CYL	28V2266	28V3354	9N5228		37
8 CYL	28V2616		9N5836		37
3408			M25 LIFT TRUCK	1974	
8 CYL	94V1		1167139		38
3408			VEHICULAR ENGINE, U.S.	1975	
8 CYL	48W1	48W3187	4N6254,4N6724		31
8 CYL	48W3188	48W3206	4N6254,4N6724		30
8 CYL	48W3205	48W3245	4N6254,4N6724		31
8 CYL	48W3246	48W6043	4N6254,4N6724		30
8 CYL	48W1	48W6041	4N7722		30
3408B			3408B ENGINE, BRAZIL	1988	
8 CYL	1LG609		7C9416		38
3412			MARINE ENGINE, U.S.	1976	
12 CYL	60M381		6N1160		31
12 CYL	60M382	60M384	6N1160		30
12 CYL	60M385	60M388	6N1160		31
12 CYL	60M389	60M715	6N1160		30
12 CYL	60M468		4N2247		39
12 CYL	60M469	60M1177	4N2247		37
12 CYL	60M1178	60M2088	4N2247		38
12 CYL	60M1524		4N2247,1W3500		37



ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3412			MARINE ENGINE, U.S.	1976	
12 CYL	60M1528	60M3696	1W0733		37
12 CYL	60M4265		4N2247,1W0733,4W3920,7W7584		38
12 CYL	60M6123		1243400		38
3412			INDUSTRIAL ENGINE, U.S.	1976	
12 CYL	38S1	38S1426	6N1157,6N1158,6N1169,6N1170,6N3757,6N7485, 6N7486,6N7487		31
					31
12 CYL	38S1	38S1981	4N2246,6N1154,6N1155,6N1156,6N1171,6N3576, 6N3756,6N3758,6N3759,6N7484,6N7487		39
					39
12 CYL	38S1435	38S1449	6N1157,6N1158,6N1169,6N1170,6N3757,6N7485, 6N7486,6N7487		31
					31
12 CYL	38S1427	38S3486	6N1157,6N1158,6N1169,6N1170,6N3757,6N7485, 6N7486,7N7707,7N7708		30
					30
12 CYL	38S1728	38S3489	6N1157,6N1158,6N1169,6N1170,6N3757,6N7485, 6N7486,7N7707,7N7708		30
					30
12 CYL	38S3490	38S6343	6N1157,6N1158,6N1169,6N1170,6N3757,6N7485, 6N7486,7N7707,7N7708		30
					30
12 CYL	38S1982	38S6342	4N2246,6N1155,6N3576,6N3756,6N3758,6N7484, 6N7487,7N7709,7N7710,7N7711,7N7712		37
					37
12 CYL	38S6343	38S12520	1N3719,4N2246,4N2247,6N1155,8N9231,1W0256		38
12 CYL	38S12566	UP	7C6767,1N3719,4N2246,6N1155,8N9231,1W0256, 4W1757,7W7541,7W8173,7W8646,1181296, 1190529,1191047,1274673		38
					38
3508			INDUSTRIAL ENGINE, U.S.	1981	
8 CYL	95Y1	95Y643	7N8704,8N5810,8N5811		46/47
3508			MARINE ENGINE, U.S.	1981	
8 CYL	96Y1	UP	7N8702		46/47
3508			GENERATOR SET, U.S.	1981	
8 CYL	23Z1	UP	7N8701,7N8703		46/47
8 CYL	23Z1333		7C1299		46/47
3508			INDUSTRIAL ENGINE, U.S.	1982	
8 CYL	68Z1		1W4210		46/47
3508			MARINE ENGINE, U.S.	1983	
8 CYL	69Z1		1W4213,1W4215		46/47
3508			GENERATOR SET, U.S.	1982	
8 CYL	70Z1		1W4211,1W4212		46/47
3512			INDUSTRIAL ENGINE, U.S.	1980	
12 CYL	49Y355		8N5805		46/47
12 CYL	49Y380		8N5808		46/47
3512			MARINE ENGINE, U.S.	1980	
12 CYL	50Y405		8N5802		46/47
12 CYL	50Y413		8N5809		46/47
3512			VEHICULAR ENGINE, U.S.	1980	
12 CYL	51Y449		8N5803		46/47
3512			GENERATOR SET, U.S.	1981	
12 CYL	24Z1		8N5806,8N5807		46/47
12 CYL	24Z1634		7C1300		46/47

LINE NUMBER IDENTIFICATION



ENGINE	ENGINE SERIAL NUMBER		ENGINE APPLICATION & ARRANGEMENT #	YEAR BUILT	LINE
	FROM:	TO:			
3512			INDUSTRIAL ENGINE, U.S.	1982	
12 CYL	85Z1		1W4216, 1W4217, 1W4218, 1W4220		46/47
3512			GENERATOR SET, U.S.	1982	
12 CYL	67Z1		1W4218, 1W4219		46/47
3516			GENERATOR SET, U.S.	1982	
16 CYL	25Z1		8N0462		46/47
16 CYL	25Z815		7C1301		46/47
3516			VEHICULAR ENGINE, U.S.	1982	
16 CYL	28Z1		8N0465		46/47
3516			MARINE ENGINE, U.S.	1982	
16 CYL	29Z1		8N0464, 8N5813		46/47
16 CYL	72Z1		1W4225		46/47
16 CYL	72Z315		1W4227		46/47
D13000					
6 CYL	28B1	28B504	INDUSTRIAL	1953	40
6 CYL	1T1	1T478	INDUSTRIAL	1937	40
6 CYL	30B1	30B69	MARINE	1958	40
6 CYL	29B1	29B41	GEN. SET	1954	40

CATERPILLAR ENGINE 4.50"BORE

LINE	ENGINE	DESCRIPTION	PISTON KIT	PISTON	RING TYPE	INJ TYPE
1	1140/1145	STRAIGHT ROD, STD.	PK9317	FP-9L9317	R	DI
		STRAIGHT ROD, .020	PK9667	FP-9L9667	R	DI
		STRAIGHT ROD, .040	PK9320	FP-9L9320	R	DI
2	1150°	STRAIGHT ROD, STD.	PK9318	FP-9L9318	R	DI
		STRAIGHT ROD, .020	PK9668	FP-9L9668	R	DI
		STRAIGHT ROD, .040	PK9321	FP-9L9321	R	DI
3	D315/D318	STRT RD,STD. SINGLE NI GROOVE	LK2000	FP-8H2000	R	PC
4	D330/D333	STRT RD,STD. SINGLE NI GROOVE	LK5558	FP-2M5558	R	PC
5	3204	STRAIGHT ROD, STD	PK4221	FP-6N4221	R	PC
		STRAIGHT ROD, .020	PK4341	FP-6N4341	R	PC
		STRAIGHT ROD, .040	PK4351	FP-6N4351	R	PC
6	3204	TAPERED ROD, STD.	PK1146	FP-7C1146	R	DI
7	3204°	TAPERED ROD, STD. 16.5:1 C/R	PK4831	FP-2W4831	R	DI
		TAPERED ROD, .020 16.5:1 C/R	PK8410	FP-2W8410	R	DI
		TAPERED ROD, .040 16.5:1 C/R	PK8411	FP-2W8411	R	DI
8	3208°	STRAIGHT ROD, STD. 16.5:1C/R	PK7737	FP-9L7737	R	DI
		STRAIGHT ROD, .020 16.5:1C/R	PK7827	FP-9L7827	R	DI
		STRAIGHT ROD, .040 16.5:1C/R	PK7828	FP-9L7828	R	DI
9	3208°	ALL ROD 3-RING, STD.16.5:1C/R	PK7737-3R	FP-9L7737-3R	R	DI
		ALL ROD 3-RING, .020 16.5:1C/R	PK7827-3R	FP-9L7827-3R	R	DI
		ALL ROD 3-RING, .040 16.5:1C/R	PK7828-3R	FP-9L7828-3R	R	DI
10	3208	TAPERED ROD, STD. 17.5:1 C/R	PK3846	FP-7W3846	R	DI
		TAPERED ROD, .020 17.5:1 C/R	PK3846+020	FP-7W3846+020	R	DI
		TAPERED ROD, .040 17.5:1 C/R	PK3846+040	FP-7W3846+040	R	DI
11	3208	ALL ROD, STD. 17.5:1 C/R	PK3846-3R	FP-7W3846-3R	R	DI
		ALL ROD, .020 17.5:1 C/R	PK3846-3R+020	FP-7W3846-3R+020	R	DI
		ALL ROD, .040 17.5:1 C/R	PK3846-3R+040	FP-7W3846-3R+040	R	DI
12	3208**	TAPERED ROD 3-RING, STD. 16.5:1C/R	PK4729	FP-7E4729	K	DI
13	3208°	TAPERED ROD 2-RING, STD. 16.5:1 C/R	PK4187	FP-9Y4187	R	DI
		OIL DRAIN SLOTS & OIL HOLES				
14	3208°	TAPERED ROD, STD. HI C/R 18.2:1	PK8412	FP-2W8412	R	DI
		TAPERED ROD, .020 HI C/R 18.2:1	PK8414	FP-2W8414	R	DI
		TAPERED ROD, .040 HI C/R 18.2:1	PK8415	FP-2W8415	R	DI

K=KEYSTONE RING

R=RECTANGULAR RING

DI=DIRECT INJECTION

**O.E. TYPE 3-RING KEYSTONE PISTON

°APPLIES TO MORE THAN ONE ENGINE

PC=PRECOMBUSTION CHAMBER



CATERPILLAR ENGINE 4.50" BORE

LINE	PIN	RETAINER	RING SET	LINER	LINER SEAL		BAND, FILLER	LINER SEAL
					LOWER	UPPER		KIT
1	FP-7N9803	(2) FP-8N7294	FP-2W8265	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8646	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8647	FP-9N6275*	NOT USED	NOT USED		NOT USED
2	FP-7N9803	(2) FP-8N7294	FP-2W8265	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8646	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8647	FP-9N6275*	NOT USED	NOT USED		NOT USED
3	FP-4M5489	(2) FP-4F7021	FP-9H1212	FP-4F6486	(3) FP-3S3977	NOT USED		NOT USED
4	FP-7N9804	(2) FP-9H4015	FP-3S4029	FP-8S2240	(3) FP-3S3977	NOT USED		NOT USED
5	FP-7N9803	(2) FP-8N7294	FP-2W8265	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8646	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8647	FP-9N6275*	NOT USED	NOT USED		NOT USED
6	FP-7N9803	(2) FP-8N7294	FP-2W8265	FP-9N6275*	NOT USED	NOT USED		NOT USED
7	FP-7N9803	(2) FP-8N7294	FP-2W8265	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8646	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8647	FP-9N6275*	NOT USED	NOT USED		NOT USED
8	FP-7N9803	(2) FP-8N7294	FP-2W8265	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8646	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8647	FP-9N6275*	NOT USED	NOT USED		NOT USED
9	FP-7N9803	(2) FP-8N7294	FP-2W8265-3R	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8646-3R	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8647-3R	FP-9N6275*	NOT USED	NOT USED		NOT USED
10	FP-7N9803	(2) FP-8N7294	FP-2W8265	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8646	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8647	FP-9N6275*	NOT USED	NOT USED		NOT USED
11	FP-7N9803	(2) FP-8N7294	FP-2W8265-3R	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8646-3R	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8647-3R	FP-9N6275*	NOT USED	NOT USED		NOT USED
12	FP-7N9803	(2) FP-8N7294	FP7E4729-RS	FP-9N6275*	NOT USED	NOT USED		NOT USED
13	FP-7N9803	(2) FP-8N7294	FP-2W2178-RS	FP-9N6275*	NOT USED	NOT USED		NOT USED
14	FP-7N9803	(2) FP-8N7294	FP-2W8265	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8646	FP-9N6275*	NOT USED	NOT USED		NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8647	FP-9N6275*	NOT USED	NOT USED		NOT USED

NOTES *PRESS-IN DRYWALL LINER.



CATERPILLAR ENGINE 4.50"BORE

LINE	ENGINE	DESCRIPTION	PISTON KIT	PISTON	RING TYPE	INJ TYPE
15	3208*	3-RING STD HI C/R 18.2:1	PK8412-3R	FP-2W8412-3R	R	DI
		3-RING .020 HI C/R 18.2:1	PK8414-3R	FP-2W8414-3R	R	DI
		3-RING .040 HI C/R 18.2:1	PK8415-3R	FP-2W8415-3R	R	DI

CATERPILLAR ENGINE 4.75 " BORE

LINE	ENGINE	DESCRIPTION	LINER KIT	PISTON	RING TYPE	INJ TYPE
16	3304/3306/330C/D333C	1.7"PN TPR ROD DUAL NI INSERT W/PLUG 17.5:1 C/R	LK5250	FP-9N5250	R	PC
17	D334	1.7"PIN DUAL NI INSERT 4V HEAD	LK2886	FP-5S2886	R	PC
18	3304/3306	1.5"PN TPR ROD SINGLE NI INSERT N/PLUG	LK3180	FP-8N3180	R	PC
19	3304/3306	1.5" PN TPR ROD DUAL NI INSERT N/PLUG NA & T	LK3182	FP-8N3182	R	PC
20	3304/3306	1.5"PN TPR ROD HI ALTITUDE 21:1 C/R	LK3184	FP-8N3184	K	PC
21	3304/3306	1.7"PIN TAPERED ROD 15:1 C/R	LK6757	FP-1W6757	R	DI
22	3304/3306	1.7"PIN TAPERED ROD DUAL NI INST. 17.5:1 C/R	LK5403	FP-9N5403	K	PC
23	3304/3306	1.7" PIN TAPERED ROD 15:1 C/R	LK3102	FP-8N3102	K	DI
23A	3304/3306B	1.7" PIN TAPERED ROD 16:1 C/R	LK8217	FP-9Y8217	K	DI
24	G3304/3306	NATURAL GAS 3-RING 10.5:1 C/R	LK2654	FP-4P2654	R	
25	G3304/3306	NATURAL GAS 3-RING 8.0:1 C/R	LK2655	FP-4P2655	R	

CATERPILLAR ENGINE 5.4" BORE

LINE	ENGINE	DESCRIPTION	LINER KIT	PISTON	RING TYPE	INJ TYPE
26	D343	STRAIGHT ROD, EARLY TYPE PISTON L/F DUAL NI INSERT 1/4" OIL RING GROOVE	LK0735	FP-7N0735	R	PC
27	D348/D348 D349	STRAIGHT ROD 4 VALVE RELIEF W/PLUG DUAL NI INSERT 1/8" OIL RING W/PLUG	LK0931	FP-8N0931	K	PC
28	D343/1693	STRAIGHT ROD 4 VALVE RELIEF W/PLUG DUAL NI INSERT 1/8" OIL RING GROOVES	LK2874	FP-9N2874	K	PC
29	3408	6 DEG ROD 4 VALVE RELIEFS SINGLE NI INSERT 1/8" OIL RING GROOVES	LK3724	FP-4N3724	K	DI
30	3406/3408 3412	6 DEG ROD DUAL NI INSERT W/PLUG 1/8" NARROW KEYSTONE RING 15:1 C/R	LK3633	FP-7N3633	K	PC

K=KEYSTONE RING

R=RECTANGULAR RING

DI=DIRECT INJECTION

*APPLIES TO MORE THAN ONE ENGINE

PC=PRECOMBUSTION CHAMBER

CATERPILLAR ENGINE 4.50" BORE

LINE	PIN	RETAINER	RING SET	LINER	LINER SEAL LOWER	LINER SEAL UPPER	LINER SEAL KIT
15	FP-7N9803	(2) FP-8N7294	FP-2W8265-3R	FP-9N6275*	NOT USED	NOT USED	NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8646-3R	FP-9N6275*	NOT USED	NOT USED	NOT USED
	FP-7N9803	(2) FP-8N7294	FP-2W8647-3R	FP-9N6275*	NOT USED	NOT USED	NOT USED

CATERPILLAR ENGINE 4.75 " BORE

LINE	PIN	RETAINER	RING SET	LINER	LINER SEAL LOWER	BAND, FILLER UPPER	LINER SEAL KIT
16	FP-7N9805	(2) FP-1S9543	FP-9S3068	FP-1105800	(3) FP-5S6670	(1) FP-2W6134	FP-5P8768
17	FP-7N9805	(2) FP-1S9543	FP-9S3068	FP-1105800	(3) FP-5S6670	(1) FP-2W6134	FP-5P8768
18	FP-7N9804	(2) FP-9H4015	FP-9S3068	FP-1105800	(3) FP-5S6670	(1) FP-2W6134	FP-5P8768
19	FP-7N9804	(2) FP-9H4015	FP-9S3068	FP-1105800	(3) FP-5S6670	(1) FP-2W6134	FP-5P8768
20	FP-7N9804	(2) FP-9H4015	FP-9S3068	FP-1105800	(3) FP-5S6670	(1) FP-2W6134	FP-5P8768
21	FP-7N9805	(2) FP-1S9543	FP-2W6091	FP-1105800	(3) FP-5S6670	(1) FP-2W6134	FP-5P8768
22	FP-7N9805	(2) FP-1S9543	FP-2W1709	FP-1105800	(3) FP-5S6670	(1) FP-2W6134	FP-5P8768
23	FP-7N9805	(2) FP-1S9543	FP-2W1709	FP-1105800	(3) FP-5S6670	(1) FP-2W6134	FP-5P8768
23A	FP-7N9805	(2) FP-1S9543	FP-2W1709	FP-1105800	(3) FP-5S6670	(1) FP-2W6134	FP-5P8768
24	FP-7N9804	(2) FP-9H4015	FP-4P2654-RS	FP-1105800	(3) FP-5S6670	(1) FP-2W6134	FP-5P8768
25	FP-7N9804	(2) FP-9H4015	FP-4P2654-RS	FP-1105800	(3) FP-5S6670	(1) FP-2W6134	FP-5P8768

CATERPILLAR ENGINE 5.4" BORE

LINE	PIN	RETAINER	RING SET	LINER	LINER SEAL LOWER	BAND, FILLER UPPER	LINER SEAL KIT
26	FP-7N9806	(2) FP-8N7295	FP-1P0734	FP-1260739	(3) FP-3S3978	(1) FP-9L5854	FP-5P8789
27	FP-7N9808	(2) FP-3F8513	FP-8N0822	FP-1260739	(3) FP-3S3978	(1) FP-9L5854	FP-5P8789
28	FP-7N9806	(2) FP-3F8513	FP-8N0822	FP-1260739	(3) FP-3S3978	(1) FP-9L5854	FP-5P8789
29	FP-7N9806	(2) FP-8N7295	FP-8N0822	FP-2W6000	(3) FP-1102220	(1) FP-9L5854	FP-1183732
30	FP-7N9807	(2) FP-8N7295	FP-8N0822	FP-2W6000	(3) FP-1102220	(1) FP-9L5854	FP-1183732

NOTES: *PRESS-IN DRYWALL LINER.

CATERPILLAR ENGINE 5.4" BORE

LINE	ENGINE	DESCRIPTION	LINER KIT	PISTON	RING TYPE	INJ TYPE
31	3408/3408	9 DEG ROD 4 VALVE RELIEF	LK4128	FP-8N4128	K	PC
	3412	1/8" NARROW KEYSTONE RING				
32	3408/3412	8 DEG ROD DUAL NI INSERT	LK3509	FP-7N3509	K	DI
		1/8" NARROW KEYSTONE RING				
33	3408/3408	9 DEG ROD 280/300 HP (JWAC)	LK4004	FP-9Y4004	K	DI
	3412	5/32" WIDE KEYSTONE RING 14.5:1 C/R				
34	3408/3408	STRAIGHT ROD, DUAL NI INSERT	LK4080	FP-8N4080	K	DI
	3412	1/8" NARROW KEYSTONE RING				
35	3408B	9 DEG ROD (JWAC) 310 HP	LK3116	FP-9Y3116	K	DI
		5/32 WIDE KEYSTONE RING 15.2:1 C/R				
36	3408B	9 DEG ROD (ATAAC) 350/425 HP OIL DRAIN SLOTS	LK9889	FP-9Y9889	K	DI
		5/32" WIDE KEYSTONE RING 15.2:1 C/R				
37	3408/3412	6 DEG ROD DUAL NI INSERT	LK3511	FP-7N3511	K	DI
		1/8" NARROW KEYSTONE RING				
38	3408B/3408	9 DEG ROD DUAL NI INSERT (ATAAC) CARB	LK7212	FP-9Y7212	K	DI
	3412	5/32" WIDE KEYSTONE RING 15.6:1 C/R				
39	3408/3412	STRAIGHT ROD DUAL NI INSERT	LK4785	FP-6N4785	K	DI
		1/8" NARROW KEYSTONE RING				

CATERPILLAR ENGINE 5.75" BORE

LINE	ENGINE	DESCRIPTION	LINER KIT	PISTON	RING TYPE	INJ TYPE
40	D339,D342,D364	STRAIGHT ROD DUAL NI INSERT,W/PLUG	LK9111	FP-4M9111	R	PC
	D375,D386,D397					
41	D339,D342,D364	STRAIGHT ROD DUAL NI INSERT,W/PLUG	LK1368	FP-7N1368	K	PC
	D375,D386,D397					

CATERPILLAR ENGINE 6.25" BORE

LINE	ENGINE	DESCRIPTION	LINER KIT	PISTON	RING TYPE	INJ TYPE
42	D353,D379	STRAIGHT ROD DUAL NI INSERT,W/PLUG	LK4515	FP-7N4515	R	PC
	D398,D399					
43	D353,D379	STRAIGHT ROD DUAL NI INSERT,W/PLUG	LK5036	FP-7N5036	K	PC
	D398,D399					
44	G353,G379	NATURAL GAS TURBO 7:1 C/R	LK1824	FP-3S1824	R	
	G398,G399					
45	G353,G379	NATURAL GAS TURBO 10:1 C/R	LK1826	FP-3S1826	R	
	G398, G399					

CATERPILLAR ENGINE 6.70" BORE

LINE	ENGINE	DESCRIPTION	LINER KIT	PISTON	RING TYPE	INJ TYPE
46	3508/12/16	LINER KIT,SMALL FLANGE LINER	LK2431-8206	FP-7C2431	R	DI
47	3508/12/16	LINER KIT,LARGE FLANGE LINER	LK2431-8893	FP-7C2431	R	DI

K=KEYSTONE RING

R=RECTANGULAR RING

DI=DIRECT INJECTION

*APPLIES TO MORE THAN ONE ENGINE

PC=PRECOMBUSTION CHAMBER

CATERPILLAR ENGINE 5.4" BORE

LINE	PIN	RETAINER	RING SET	LINER	LINER SEAL LOWER	BAND, FILLER UPPER	LINER SEAL KIT
31	FP-7N9807	(2) FP-8N7295	FP-8N0822	FP-2W6000	(3) FP-1102220	(1) FP-9L5854	FP-1183732
32	FP-7N9806	(2) FP-8N7295	FP-8N0822	FP-2W6000	(3) FP-1102220	(1) FP-9L5854	FP-1183732
33	FP-8N1608	(2) FP-8N7295	FP-1W8922	FP-2W6000	(3) FP-1102220	(1) FP-9L5854	FP-1183732
34	FP-7N9806	(2) FP-8N7295	FP-8N0822	FP-2W6000	(3) FP-1102220	(1) FP-9L5854	FP-1183732
35	FP-8N1608	(2) FP-8N7295	FP-1W8922	FP-2W6000	(3) FP-1102220	(1) FP-9L5854	FP-1183732
36	FP-8N1608	(2) FP-8N7295	FP-1W8922	FP-2W6000	(3) FP-1102220	(1) FP-9L5854	FP-1183732
37	FP-7N9806	(2) FP-8N7295	FP-8N0822	FP-2W6000	(3) FP-1102220	(1) FP-9L5854	FP-1183732
38	FP-8N1608	(2) FP-8N7295	FP-1W8922	FP-2W6000	(3) FP-1102220	(1) FP-9L5854	FP-1183732
39	FP-7N9806	(2) FP-8N7295	FP-8N0822	FP-2W6000	(3) FP-1102220	(1) FP-9L5854	FP-1183732

CATERPILLAR ENGINE 5.75" BORE

LINE	PIN	RETAINER	RING SET	LINER	LINER SEAL LOWER	BAND, FILLER UPPER	LINER SEAL KIT
40	FP-7N9809	(2) FP-7M4926	FP-3S4031	FP-8N5676	(3) FP-6L7812	(1) FP-8N4838	FP-5P9221
41	FP-7N9809	(2) FP-7M4926	FP-8N5760	FP-8N5676	(3) FP-6L7812	(1) FP-8N4838	FP-5P9221

CATERPILLAR ENGINE 6.25" BORE

LINE	PIN	RETAINER	RING SET	LINER	LINER SEAL LOWER	BAND, FILLER UPPER	LINER SEAL KIT
42	FP-7N9810	(2) FP-7M4926	FP-1W5105	FP-8N9174	(3) FP-6L7815	(1) FP-8N4708	FP-5P8970
43	FP-7N9810	(2) FP-7M4926	FP-1N3601	FP-8N9174	(3) FP-6L7815	(1) FP-8N4708	FP-5P8970
44	FP-7N9810	(2) FP-7M4926	FP-1W6055	FP-8N9174	(3) FP-6L7815	(1) FP-8N4708	FP-5P8970
45	FP-7N9810	(2) FP-7M4926	FP-1W6055	FP-8N9174	(3) FP-6L7815	(1) FP-8N4708	FP-5P8970

CATERPILLAR ENGINE 6.70" BORE

LINE	PIN	RETAINER	RING SET	LINER	LINER SEAL LOWER	BAND, FILLER UPPER	LINER SEAL KIT
46	FP-4W8484	(2) FP-8N7296	FP-1N3967	FP-1238206	(3) FP-7N2046	(1) FP-8N4707	FP-6V3774
47	FP-4W8484	(2) FP-8N7296	FP-1N3967	FP-1106993	(3) FP-7N2046	(1) FP-8N4707	FP-6V3774

SECTION 2

VALVE TRAIN COMPONENTS

Consists of: Intake Valves, Exhaust Valves, Outer Springs, Inner Springs, Intake Guides, Exhaust Guides, Locks, Rotocoils, Retainers, Intake Valve Inserts, Exhaust Valve Inserts, Valve Guide Seal.

Machine Section.....	50
Engine Section.....	68
Line Numbers.....	84

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D3						
3204 4 CYL	6N1	6N885	45V1	45A17159	4N0169,4N0303	4
3204 4 CYL	6N866	UP	45V17160	UP	7N3800	5
3204 4 CYL	79U4689	UP	45V17160	UP	7N3800	5
3204 4 CYL	82U1	UP	45V17160	UP	7N3800	5
3204 4 CYL	83U1	UP	45V17160	UP	7N3800	5
D3B						
3204 4 CYL	23Y1	UP	45V17160	UP	7N5139	5
3204 4 CYL	24Y1	UP	45V17160	UP	7N5139	5
3204 4 CYL	27Y1	UP	45V17160	UP	7N6938	5
3204 4 CYL	28Y1	UP	45V17160	UP	7N6938	5
D4C						
D330 4 CYL	24A1	24A588				6
D330 4 CYL	24A589	24A1274				6
D330 4 CYL	39A1	39A471				6
D330 4 CYL	39A472	UP				6
D330 4 CYL	40A1	40A3750				6
D330 4 CYL	40A3751	40A5253				6
D330 4 CYL	54A1	54A124				6
D330 4 CYL	54A125	UP				6
D330 4 CYL	55A1	55A312				6
D330 4 CYL	55A313	UP				6
D330 4 CYL	69A1	69A873				6
D330 4 CYL	69A874	UP				6
D4D						
D330 4 CYL	67A1	67A853				6
D330 4 CYL	67A854	UP				6
D330 4 CYL	78A1	78A6587				6
D330 4 CYL	78A6588	UP				6
D330 4 CYL	85A1	85A621				6
D330 4 CYL	85A622	UP				6
D330 4 CYL	86A1	UP				6
D330 4 CYL	91A1	UP				6
D330 4 CYL	22C1	UP				6
3304 4 CYL	44H1	44H759	48V1	UP	6A3373	7
3304 4 CYL	44H780	UP	48V1	UP	6A5544, 6A7358	7
3304 4 CYL	44H760	UP	48V1	UP	2P6781	7
D330 4 CYL	18J1	UP				6
D330 4 CYL	20J1	UP				6
D330 4 CYL	58J1	UP				6
3304 4 CYL	59J1	59J1280			8A2321, 6A3021	7
3304 4 CYL	59J1281	UP	48V1	UP	2P6775, 8A5543	7
3304 4 CYL	59J1281	UP	48V1	UP	6A7357, 5C1593	7
3304 4 CYL	60J1	60J3289			8A2320	7
3304 4 CYL	60J3270	UP	48V1	UP	2P6778, 6A5542	7
3304 4 CYL	60J3270	UP	48V1	UP	6A7356, 5C1594	7
3304 4 CYL	61J1	61J517			8A2320	7
3304 4 CYL	61J518	UP	48V1	UP	2P6778, 6A5542	7
3304 4 CYL	61J518	UP	48V1	UP	6A7356, 5C1594	7

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D4D						
3304 4 CYL	65J1	UP				7
3304 4 CYL	66J1	UP				7
3304 4 CYL	82J1	82J3443			7S4975	7
3304 4 CYL	82J3444	UP	78P1	UP	2P6778, 4N3803	7
3304 4 CYL	83J1	88J2176			5S3816	7
3304 4 CYL	83J2177	UP	78P1	UP	2P6775, 4N3799	7
3304 4 CYL	84J1	84J1524			7S4977	7
3304 4 CYL	84J1525	UP	78P1	UP	2P6781, 4N3806	7
3304 4 CYL	7R1	7R507			6A3021	7
3304 4 CYL	7R508	UP	48V1	UP	2P6775, 6A5543	7
3304 4 CYL	7R508	UP	48V1	UP	6A7357, 5C1593	7
D4E						
3304 4 CYL	27X1	27X917	78P34523	78P45233	7N2301, 7N1517	7
3304 4 CYL	27X1	27X917	78P45234	UP	7N1517	7
3304 4 CYL	27X918	UP	7Z245	7Z759	8N3073	25
3304 4 CYL	27X918	UP	7Z760	UP	8N3073	25
3304 4 CYL	28X1	28X1726	78P34523	78P45233	4N3799, 7N1516	7
3304 4 CYL	28X1	28X1726	78P45234	UP	7N1516	7
3304 4 CYL	28X1727	UP	7Z238	7Z759	8N3071	25
3304 4 CYL	28X1727	UP	7Z760	UP	8N3071	25
3304 4 CYL	29X1	29X707	78P34523	78P45233	7N2300, 7N1520	7
3304 4 CYL	29X1	29X707	78P45234	UP	7N1520	21
3304 4 CYL	29X708	UP	7Z242	UP	8N3075, 1W5126	25
3304 4 CYL	68X1	68X766	48V32653	48V38454	5C5463, 5C5588	7
3304 4 CYL	68X1	68X766	48V38455	UP	5C5463, 5C5588	7
3304 4 CYL	68X767	UP	12Z1	UP	8N3073	25
3304 4 CYL	69X1	69X1424	48V32653	48V38454	6A7357, 5C1593	7
3304 4 CYL	69X1	69X1424	48V38455	UP	6A7357, 5C1593	7
3304 4 CYL	69X1425	UP	12Z1	UP	8N3071	25
3304 4 CYL	70X1	70X824	48V32653	48V38454	5C5462	7
3304 4 CYL	70X1	70X824	48V38455	UP	5C5462	7
3304 4 CYL	70X825	UP	12Z1	UP	8N3075	25
3304 4 CYL	71X1	UP	48V32653	48V38454	5C5463, 5C5586	7
3304 4 CYL	71X1	UP	48V38455	UP	5C5463, 5C5586	7
3304 4 CYL	72X1	72X638	48V32653	48V38454	6A7357, 5C1593	7
3304 4 CYL	72X1	72X638	48V38455	UP	6A7357, 5C1593	7
3304 4 CYL	72X639	UP	12Z1	UP	8N3071, 5C8754	25
D5						
D333 6 CYL	98A1	UP				6
D333 6 CYL	81H1	UP				6
D333 6 CYL	82H1	UP				6
D333 6 CYL	83H1	83H455				6
D333 6 CYL	84H1	84H809				6
D333 6 CYL	21J1	UP				6
3306 6 CYL	54J1	UP				7
3306 6 CYL	62J1	62J654			6A3023	7
3306 6 CYL	62J655	62J956	49V1	49V6143	2P6788, 6A5547	7
3306 6 CYL	62J957	UP	49V6144	49V9668	6A9728, 5C1719	7
3306 6 CYL	63J1	63J953			6A3024	7

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D5						
3306 6 CYL	63J954	63J1511	49V1	49V6263	2P6789, 6A5548	7
3306 6 CYL	63J1512	UP	49V6264	49V9668	6A9729, 5C1720	7
3306 6 CYL	67J1	UP				7
3306 6 CYL	68J1	UP				7
3306 6 CYL	93J1	93J731			5S3817	7
3306 6 CYL	93J732	93J850	3N1	3N24132	2P6788, 4N7361	7
3306 6 CYL	93J851	UP	3N24133	UP	4N7361, 4N8132	8
3306 6 CYL	94J1	94J1932			5S3817	7
3306 6 CYL	94J1933	94J2281	3N1	3N24132	2P6788, 4N7361	7
3306 6 CYL	94J2282	UP	3N24133	UP	4N7361, 4N8132	8
3306 6 CYL	95J1	95J356			7S1782	7
3306 6 CYL	95J357	95J397	3N1	3N24132	2P6789, 6A5548	7
3306 6 CYL	95J398	UP	3N24133	UP	4N7363	8
3306 6 CYL	96J1	96J3587			7S1782	7
3306 6 CYL	96J3588	96J4790	3N1	3N24132	2P6789, 4N7363	7
3306 6 CYL	96J4791	UP	3N24133	UP	4N7363	8
3306 6 CYL	98J1	98J1133			7S4452	7
3306 6 CYL	98J1134	98J1458	3N1	3N24132	2P6793, 4N7364	7
3306 6 CYL	98J1459	UP	3N24133	UP	4N7364, 1P32	8
3306 6 CYL	6R1	6R596			6A3024	7
3306 6 CYL	6R597	UP	49V1	49V9668	6A9729, 6A5548	7
3306 6 CYL	6R597	UP	49V1	49V9668	2P6789	7
3306 6 CYL	12R1	12R171			6A3023	7
3306 6 CYL	12R172	UP	49V1	49V9668	2P6788, 6A5547	7
3306 6 CYL	12R172	UP	49V1	49V9668	5C1447	7
D5B						
3306 6 CYL	22X1	22X438	3N1	3N79562	6N8257, 7N1529	7
3306 6 CYL	22X1	22X438	3N79563	UP	7N1529	7
3306 6 CYL	22X439	UP	8Z446	8Z4878	7N4978	31
3306 6 CYL	22X439	UP	8Z4879	UP	7N4978	28
3306 6 CYL	23X1	23X777	3N1	3N79562	6N8757, 7N1529	7
3306 6 CYL	23X1	23X777	3N79563	UP	7N1529	7
3306 6 CYL	23X778	UP	8Z446	8Z4878	7N4978	31
3306 6 CYL	23X778	UP	8Z4879	UP	7N4978	28
3306 6 CYL	24X1	24X412	3N1	3N79562	6N7715, 7N1530	7
3306 6 CYL	24X1	24X412	3N79563	UP	7N1530	7
3306 6 CYL	24X413	UP	8Z446	8Z2400	7N4980	27
3306 6 CYL	24X413	UP	8Z2401	UP	7N4980	28
3306 6 CYL	25X1	25X1814	3N1	3N79562	6N7715, 7N1530	7
3306 6 CYL	25X1	25X1814	3N79563	UP	7N1530	7
3306 6 CYL	25X1815	UP	8Z446	8Z4239	7N4980	27
3306 6 CYL	25X1815	UP	8Z4240	UP	7N4980	28
3306 6 CYL	26X1	26X877	3N1	3N79562	6N7717, 7N1531	7
3306 6 CYL	26X1	26X877	3N1	3N79562	8N979	7
3306 6 CYL	26X1	26X877	3N79563	UP	6N7717, 7N1531	7
3306 6 CYL	26X1	26X877	3N79563	UP	8N979	7
3306 6 CYL	26X878	UP	8Z446	8Z4944	7N4981, 8N7510	27
3306 6 CYL	26X878	UP	8Z4945	UP	7N4981, 8N7510	28

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D6B						
D333 6 CYL	37A1	37A2306				6
D333 6 CYL	37A2307	UP				6
D333 6 CYL	44A1	44A12416				6
D333 6 CYL	44A12417	44A13071				6
D333 6 CYL	56A1	56A125				6
D333 6 CYL	56A126	UP				6
D333 6 CYL	57A1	57A177				6
D333 6 CYL	57A178	UP				6
D333 6 CYL	37H1	UP				6
D333 6 CYL	38H1	UP				6
D6C						
D333 6 CYL	41A1	UP				6
D333 6 CYL	71A1	UP				6
D333 6 CYL	73A1	73A416				6
D333 6 CYL	73A417	UP				6
D333 6 CYL	74A1	74A2482				6
D333 6 CYL	74A2483	UP				6
D333 6 CYL	76A1	76A4678				6
D333 6 CYL	76A4679	76A6061				6
D333 6 CYL	82A1	82A529				6
D333 6 CYL	82A530	UP				6
D333 6 CYL	83A1	83A705				6
D333 6 CYL	83A706	UP				6
D333 6 CYL	96A1	UP				6
3306 6 CYL	90B1	UP	44V1	UP	2P6794, 2P6800	7
3306 6 CYL	46J1	46J868			6A3091, 6A3673	7
3306 6 CYL	46J869	UP	49V1	49V9668	2P6794, 6A5549	7
3306 6 CYL	46J869	UP	49V1	49V9668	6A9730, 5C2609	7
3306 6 CYL	47J1	47J2559			7S4458, 6A3092	7
3306 6 CYL	47J2560	UP	49V1	49V9668	2P6795, 6A5550	7
3306 6 CYL	47J2560	UP	49V1	49V9668	6A9731, 5C2610	7
3306 6 CYL	55J1	UP				7
3306 6 CYL	56J1	UP				7
3306 6 CYL	69J1	UP	44V1	UP	2P1441, 4N7365	7
3306 6 CYL	99J1	99J1550			7S4456	7
3306 6 CYL	99J1551	UP	3N1	UP	2P1442, 2P6794	7
3306 6 CYL	99J1551	UP	3N1	UP	7S4458	7
3306 6 CYL	10K1	10K5983			7S4458	7
3306 6 CYL	10K5984	UP	3N1	UP	7S4458, 2P6795	7
3306 6 CYL	10K5984	UP	3N1	UP	4N7365	7
3306 6 CYL	17R1	UP	3N1	UP	1P2623, 2P6803	7
3306 6 CYL	17R1	UP	3N1	UP	4N7372	7
3306 6 CYL	69U1	UP	3N1	UP	4N7372, 4N6521	7
3306 6 CYL	69U1	UP	3N1	UP	4N7366	7
D6D						
3306 6 CYL	3X1	3X1008	3N1	3N75990	4N5358, 7N1534	7
3306 6 CYL	3X1	3X1008	3N75991	UP	4N5359, 7N1534	7
3306 6 CYL	3X1009	UP	8Z1848	UP	7N1399	23
3306 6 CYL	4X1	4X6607	3N1	3N75956	7N2505, 7N1539	7

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D6D						
3306 6 CYL	4X1	4X6607	3N75957	UP	7N1539	7
3306 6 CYL	4X6608	UP	8Z1827	UP	7N1398	31
3306 6 CYL	5X1	5X852	3N1	3N75886	4N7372, 7N1541	7
3306 6 CYL	5X1	5X852	3N75887	UP	7N1541	7
3306 6 CYL	5X853	UP	8Z1842	UP	8N3169	25
3306 6 CYL	6X1	6X1114	3N1	3N75970	7N2504, 7N1535	7
3306 6 CYL	6X1	6X1114	3N75971	UP	7N1535, 7N1539	7
3306 6 CYL	6X1115	UP	8Z1827	UP	7N1398	31
D7C						
D339 4 CYL	17A1	17A11980				9
D7D						
D339 4 CYL	17A11981	17A18672				30
D7E						
D339 4 CYL	17A18673	17A19442				30
D339 4 CYL	47A1	47A5841				30
D339 4 CYL	48A1	UP				30
D339 4 CYL	79A1	UP				30
D339 4 CYL	95A1	UP				30
D7F						
3306 6 CYL	93N1	93N1174			9S5765	7
3306 6 CYL	93N1175	UP	3N1	UP	2P6805, 6N482	7
3306 6 CYL	94N1	94N5191			9S5767	7
3306 6 CYL	94N5192	UP	3N1	UP	2P8806, 6N484	7
D7G						
3306 6 CYL	91V1	91V953	3N28253	3N74352	4N4559, 7N1551	8
3306 6 CYL	91V954	UP	3N74353	3N91965	7N1551	8
3306 6 CYL	91V954	UP	62Z1	UP	7N1551	31
3306 6 CYL	92V1	92V2126	3N28253	3N74339	4N4506, 7N1552	8
3306 6 CYL	92V2127	UP	3N74340	3N91965	7N1552	8
3306 6 CYL	92V2127	UP	62Z1	UP	7N1552	31
3306 6 CYL	72W1	UP	3N40015	3N74352	4N4506, 7N1552	8
3306 6 CYL	72W1	UP	3N74353	3N91965	7N1552	8
3306 6 CYL	72W1	UP	3N91966	UP	7N1552	31
D8						
D13000 6 CYL	13A1	13A3703				30
D8E-F						
D342 6 CYL	14A1	14A9692				30
D8D-G						
D342 6 CYL	15A1	15A3383				9
D8H						
D342 6 CYL	35A1	15A776				9
D342 6 CYL	36A1	36A3299				9
D342 6 CYL	36A3300	36A5329				10
D342 6 CYL	36A5330	UP				10
D342 6 CYL	46A1	46A5298				9
D342 6 CYL	46A5299	46A24432				30

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D8H						
D342 6 CYL	46A24433	UP				10
D342 6 CYL	68A1	68A509				9
D342 6 CYL	68A510	UP				10
D8K						
D342 6 CYL	76V1	76V504	17S1	17S5087	4N4444	10
D342 6 CYL	76V505	UP	17S5088	17S17338	4N4444, 7N3490	10
D342 6 CYL	76V505	UP	17S17339	UP	7N3490	36
D342 6 CYL	77V1	77V5005	17S1	17S5087	4N4445	10
D342 6 CYL	77V5006	UP	17S5088	17S17338	4N4445, 7N3491	10
D342 6 CYL	77V5006	UP	17S17339	UP	7N3491	36
D8L						
3408 8 CYL	53Y1	UP	48W13002	UP	7N2010	28/29
D9D						
D353 6 CYL	18A1	18A2505				13
D353 6 CYL	19A1	19A1818				13
D9E						
D353 6 CYL	34A1	34A736				13
D353 6 CYL	34A737	34A793				14
D353 6 CYL	49A1	49A244				13
D353 6 CYL	49A245	49A328				14
D353 6 CYL	50A1	50A161				13
D353 6 CYL	50A162	50A212				14
D9G						
D353 6 CYL	66A1	66A9417				14
D353 6 CYL	66A9418	99A12015			7M307	14
D353 6 CYL	66A12016	UP	97U1	97U3094	8S3233	14
D353 6 CYL	90J1	90J92			8S5384	14
D353 6 CYL	90J93	90J105			8S5384	14
D353 6 CYL	90J106	UP	97U1	97U5911	9S7117, 8S3239	14
D353 6 CYL	91J1	91J92			5S3997	14
D353 6 CYL	91J93	91J105			5S3997	14
D353 6 CYL	91J106	UP			9S7117, 8S3239	14
D353 6 CYL	29N1	UP	97U1	97U5911	9S7117, 8S5384	14
D353 6 CYL	30N1	UP	97U1	97U5911	5S3997, 8S3239	14
D9H						
D353 6 CYL	90V1	90V4939	97U1	97U5911	4N5998	14
D353 6 CYL	90V1	90V4939	97U5912	97U7921	4N5998	9
D353 6 CYL	90V4940	UP	97U7922	UP	7N3242	37
D353 6 CYL	97V1	97V193	97U3284	97U5911	4N7590	14
D353 6 CYL	97V194	UP	97U5912	97U7921	7N3240	9
D353 6 CYL	97V194	UP	97U7922	UP	7N3240	9
D353 6 CYL	98V1	98V193	97U3284	97U5911	4N7592	14
D353 6 CYL	98V194	UP	97U5912	97U7921	7N3241	9
D353 6 CYL	98V194	UP	97U7922	UP	7N3241	9
D353 6 CYL	99V1	99V139	97U3284	97U5911	4N7590	14
D353 6 CYL	99V140	UP	97U5912	97U8807	7N3240	9

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D9H						
D353 6 CYL	12U1	12U139	97U3284	97U5911	4N7592	14
D353 6 CYL	12U140	UP	97U5912	97U8807	7N3241	9
D9L						
3412 12 CYL	14Y1	UP	73W1224	UP	6N1348	28/29
D10						
D348 12 CYL	84W1	UP	98S1	UP	4N8927	12
D348 12 CYL	76X1	UP	98S1	UP	4N8927	12
12E						
D333 6 CYL	99E1	99E14170				6
12F						
3306 6 CYL	89H1	89H1537			7S4468	7
3306 6 CYL	89H1538	UP	3N1	3N10245	2P6791	7
3306 6 CYL	13K1	13K5286			7S4466, 9S5777	7
3306 6 CYL	13K5287	UP	3N1	3N10245	2P6790	7
3306 6 CYL	17K1	17K1233				7
3306 6 CYL	17K1234	UP	3N1	3N24132	2P6792	7
3306 6 CYL	33K1	UP				7
12G						
3306 6 CYL	61M	61M7710	3N1	3N79562	1P9587, 8N193	7
3306 6 CYL	61M1	61M7710	3N79563	UP	7N1532, 8N193	7
3306 6 CYL	61M7711	UP	8Z1	UP	7M8047	26
3306 6 CYL	61M7711	UP	8Z1	UP	7N1188	32
14C						
D333 6 CYL	35F1	35F1264				6
14D						
D333 6 CYL	96F1	96F2072				6
14E						
3306 6 CYL	72G1	72G1340			7S4464	7
3306 6 CYL	72G1341	UP	3N1	3N10258	2P6798	7
D333 6 CYL	99G1	99G886				6
3306 6 CYL	12K1	12K2190			7S4462	7
3306 6 CYL	12K2199	UP	3N1	3N10258	2P6797	7
14G						
3306 6 CYL	96U1	96U1097	3N1	3N75962	2P9637, 7N1542	7
3306 6 CYL	96U1098	96U4297	3N75963	UP	7N1542, 8N195	7
3306 6 CYL	96U4298	UP	8Z1	UP	7N1211, 7N8055	26
16						
D343 6 CYL	49G1	UP				6
16G						
3406 6 CYL	93U1	UP	70V1	UP	4N2250, 7N2400	28/29
3406 6 CYL	93U1	UP	70V1	UP	7N3724	28/29
112E						
D330 4 CYL	68E1	68E1377				6
D330 4 CYL	91G1	91G539				6

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	FROM:	TO:	FROM:	TO:		
112F						
D330 4 CYL	46D1	46D322				6
D330 4 CYL	82F1	UP				6
D330 4 CYL	80J1	80J401			5S0000	7
D330 4 CYL	80J402	UP	78P1	UP	2P6780	7
D330 4 CYL	89J1	89J1895			5S0000	7
D330 4 CYL	89J1896	UP	78P1	UP	2P6780	7
120						
D333 6 CYL	89G1	89G1223				6
D333 6 CYL	60H1	60H656				6
3306 6 CYL	14K1	14K2263				7
3306 6 CYL	35K1	35K514				7
3306 6 CYL	10R1	10R2881				7
3306 6 CYL	10R2882	UP	3N1	3N24132	4N4994	7
3306 6 CYL	22R1	22R979				7
3306 6 CYL	22R980	UP	3N1	3N24132	4N4994	7
3306 6 CYL	13U1	13U777				7
3306 6 CYL	13U778	UP	3N1	3N24132	4N7993	7
120G						
3304 4 CYL	82V1	UP	78P1	78P44430	3P134, 7N1528	7
3304 4 CYL	82V1	UP	78P44431	UP	7N1528, 8N192	7
3304 4 CYL	87V1	87V5274	78P1	78P44430	3P134, 7N1528	7
3304 4 CYL	87V1	87V5274	78P44431	UP	7N1528, 8N192	7
3304 4 CYL	87V5275	UP	7Z1	UP	7N1131, 7N8048	26
130G						
3304 4 CYL	74V1	74V1656	78P9699	78P44428	3P136, 7N1526	7
3304 4 CYL	74V1	74V1656	78P44429	UP	7N1526, 8N191	7
3304 4 CYL	74V1657	UP	7Z1	UP	7N1307, 7N8048	26
140						
3306 6 CYL	55F1	55F440				7
3306 6 CYL	55F441	UP	3N1	3N15019	2P6796	7
3306 6 CYL	11R1	11R690				7
3306 6 CYL	11R691	UP	3N1	3N15019	2P6796	7
3306 6 CYL	24R1	24R530				7
3306 6 CYL	24R881	UP	3N1	3N15019	2P6796	7
3306 6 CYL	14U1	14U430				7
3306 6 CYL	14U431	UP	3N1	3N15019	2P6798	7
140G						
3306 6 CYL	72V1	72V4230	3N1	3N75957	3P75, 8N194	7
3306 6 CYL	72V1	72V4230	3N75958	UP	7N1533, 8N194	7
3306 6 CYL	72V4231	UP	8Z1	UP	7N1212, 7N8056	26
3306 6 CYL	81V1	81V1030	3N1	3N75957	3P75, 8N194	7
3306 6 CYL	81V1	81V1030	3N75958	UP	7N1533, 8N194	7
3306 6 CYL	81V1031	UP	8Z1	UP	7N1212, 7N8051	26
215						
3304 4 CYL	96L1	UP	48V20897	48V39454	5C245	7
3304 4 CYL	96L787	UP	48V38454	UP	5C245	7
3304 4 CYL	14Z1	UP	10X1	UP	7N72	5

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
225						
3208 8 CYL	51U1	51U589				5
3208 8 CYL	51U590	UP	79V1	UP	6N780	5
3208 8 CYL	61X1	UP	79V3594	UP	6N780	5
235						
3306 6 CYL	32K1	32K2678	3N1	3N74969	4N3571,7N1543	7
3306 6 CYL	32K1	32K2678	3N74970	UP	4N3571,7N1543	7
3306 6 CYL	32K2679	UP	8Z1	UP	7N1291	26
3306 6 CYL	62X1	62X288	3N56149	3N74969	4N3571,7N1543	7
3306 6 CYL	62X1	62X288	3N74970	UP	4N3571,7N1543	7
3306 6 CYL	62X289	UP	8Z1	UP	7N1291	26
245						
3406 6 CYL	95V1	95V470	70V1	70V3573	4N2255	28/29
3406 6 CYL	95V471	UP	70V3574	UP	4N2255, 7N9472	28/29
3406 6 CYL	82X1	UP	70V3574	UP	4N2255, 7N9472	28/29
518						
3304 4 CYL	50S1	50S598			1P6493	7
3304 4 CYL	50S597	50S3229	78P1	78P45282	2P6784, 4N3976	7
3304 4 CYL	50S1289	50S3229	78P46283	UP	7N1523	7
3304 4 CYL	50S3230	UP	7Z1523	UP	1W7481, 7N1306	26
3304 4 CYL	55U1	55U151			1P6493	7
3304 4 CYL	55J152	55J688	78P1	78P46282	2P6784, 4N3976	7
3304 4 CYL	55U272	55U688	78P46283	UP	7N1523	7
3304 4 CYL	55U669	UP	7Z1523	UP	1W7481, 7N1306	26
3304 4 CYL	94U1	94U690	78P1	78P46282	2P6784, 4N3976	7
3304 4 CYL	94U287	94U690	78P46283	UP	7N1523	7
3304 4 CYL	94U691	UP	7Z1523	UP	1W7481, 7N1306	26
3304 4 CYL	95U1	95U100	78P18799	78P46282	4N3976, 7N1523	7
3304 4 CYL	95U1	95U100	78P46283	UP	7N1523	7
3304 4 CYL	95U101	UP	7Z1523	UP	1W7481, 7N1306	26
528						
3304 4 CYL	51S1	UP	3N11512	3N24132	2P6799, 4N7367	7
561B						
D333 6 CYL	62A1	62A316				6
561C						
3306 6 CYL	92J1	92J390			5S3817	7
3306 6 CYL	92J391	UP	3N1	UP	2P6788, 4N7361	7
561D						
3306 6 CYL	54X1	54X503	3N55580	3N79562	6N7715, 7N1530	7
3306 6 CYL	54X1	54X503	3N79563	UP	7N1530	7
3306 6 CYL	54X504	UP	8Z446	8Z4885	7N4980	31
3306 6 CYL	54X504	UP	8Z4886	UP	7N4980	32
571A						
D339 4 CYL	64A1	64A61				9
D339 4 CYL	64A62	UP				33

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
3306 6 CYL	95N1	95N192				7
3306 6 CYL	95N193	UP	3N1	3N24132	2P6807, 6N486	7
571G						
3306 6 CYL	16W1	UP	3N1	3N74352	6N3414, 7N1550	7
3306 6 CYL	16W256	UP	3N74353	UP	7N1550	31
572C						
D339 4 CYL	21A1	21A269				9
572D						
D339 4 CYL	21A270	21A331				9
572E						
D339 4 CYL	65A1	65A50				9
D339 4 CYL	65A51	UP				33
572F						
3306 6 CYL	96N1	UP	96N178		9S6103	7
3306 6 CYL	96N179	UP	3N1	3N24132	2P6808, 6N488	7
572G						
3306 6 CYL	40U1	UP	3N28253	3N74310	4N3975	8
3306 6 CYL	40U1	UP	3N74311	UP	4N3975, 7N4915	8
583						
D342 6 CYL	16A1	16A300				10
583H						
D342 6 CYL	38A1	38A78				9
D342 6 CYL	61A1	61A84				9
D342 6 CYL	61A85	61A679				33
D342 6 CYL	61A680	UP				10
583K						
D342 6 CYL	78V1	UP	17S1	17S17338	4N4664, 7N3492	10
D342 6 CYL	78V535	UP	17S17339	UP	7N3492	36
594G						
D353 6 CYL	62H1	62H58				14
D353 6 CYL	62H59	62H309				14
D353 6 CYL	62H310	UP	97U1	97U5911	9S2427	14
D353 6 CYL	62H310	UP	97U5912	UP	9S2427	9
594H						
D353 6 CYL	96V1	96V254	97U3284	97U5911	4N7665	14
D353 6 CYL	96V255	UP	97U5912	UP	7N3243	9
613						
3160 8 CYL	71M1	71M1377				5
3160 8 CYL	71M1378	71M2548	98M1	UP		5
3208 8 CYL	71M2549	UP	79V1	79V3593	4N8635, 6N785	5
613B						
3208 8 CYL	38W1	UP	79V2557	UP	6N7273, 8N1011	5
3208 8 CYL	38W1	UP	79V2557	UP	1W331	5
619C						
D340 8 CYL	61F1	61F2704				11

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D340 8 CYL	62F1	62F510				11
621B						
3406 6 CYL	45P1	UP	70V1	UP	4N2252, 8N5405	28/29
623B						
3406 6 CYL	46P1	UP	70V1	UP	4N2252, 8N5405	28/29
627						
3306 6 CYL	50K1	50K865				8
3306 6 CYL	50K866	UP	3N1	3N13513	2P6809	8
3306 6 CYL	54K1	54K842				8
3306 6 CYL	54K843	UP	3N1	3N13513	2P6809	8
3306 6 CYL	68M1	68M788				8
3306 6 CYL	68M789	UP	3N1	3N13513	2P6809	8
3306 6 CYL	69M1	69M785				8
3306 6 CYL	69M786	UP	3N1	3N13513	2P6809	8
627B						
3306 6 CYL	14S1	UP	3N1	3N74347	4N4439	8
3306 6 CYL	14S1	UP	3N74348	UP	4N4439	8
3306 6 CYL	15S1	UP	3N24133	3N74347	4N4439	8
3306 6 CYL	15S1	UP	3N74350	UP	4N4439	8
3306 6 CYL	37V1	UP	3N24133	3N74349	4N7376, 7N1545	8
3306 6 CYL	37V1	UP	3N74350	UP	7N1545	8
3306 6 CYL	38V1	UP	3N24133	3N74349	4N7376, 7N1545	8
3306 6 CYL	38V1	UP	3N74350	UP	7N1545	8
630A						
D343 6 CYL	52F1	52F205				11
630B						
D343 6 CYL	14G1	14G532				11
631A						
D343 6 CYL	51F1	51F782				11
631B						
D343 6 CYL	13G1	UP				11
631C						
D343 6 CYL	67M1	UP				11
631D						
3408 8 CYL	24W1	UP	48W1	UP	4N6724, 8N7812	28/29
633						
D343 6 CYL	44J1	UP				11
633C						
D343 6 CYL	66M1	UP				11
633D						
3408 8 CYL	25W1	UP	48W1	UP	4N6724, 8N7812	28/29
637						
3306 6 CYL	64M1	64M249			8S8943	8
3306 6 CYL	64M250	64M381			8S8943	8

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	FROM:	TO:	FROM:	TO:		
3306 6 CYL	64M382	UP	3N1	3N39325	2P6811, 4N7374	8
D343 6 CYL	65M1	UP			8S6704	11
D343 6 CYL	79P1	UP			8S6704	11
3306 6 CYL	91N1	91N241			8S8943	8
3306 6 CYL	91N242	91N582			8S8943	8
3306 6 CYL	91N588	UP	3N1	3N39325	2P6811, 4N7374	8
3306 6 CYL	92N1	92N197			8S8943	8
3306 6 CYL	92N198	92N242			8S8943	8
3306 6 CYL	92N243	UP	3N1	3N39325	2P6811, 4N7374	8
637B						
3306 6 CYL	26R1	UP	3N1	3N39325	2P6811, 4N7374	22
637D						
3306 6 CYL	20W1	UP	3N39326	3N74334	4N7671, 7N1547	8
3306 6 CYL	20W1	UP	3N74335	UP	7N1547	8
3306 6 CYL	21W1	UP	3N39326	3N74334	4N7671, 7N1547	8
3306 6 CYL	21W1	UP	3N74335	UP	7N1547	8
3306 6 CYL	22W1	UP	3N39326	3N74334	4N7671, 7N1547	8
3306 6 CYL	22W1	UP	3N74335	UP	7N1547	8
3306 6 CYL	23W1	UP	3N39326	3N74334	4N7671, 7N1547	8
3306 6 CYL	23W1	UP	3N74335	UP	7N1547	8
3408 8 CYL	26W1	UP	48W1	UP	4N6724	28/29
3408 8 CYL	27W1	UP	48W1	UP	4N6724	28/29
639D						
3306 6 CYL	88X1	UP	3N78706	UP	7N1547	8
3408 8 CYL	99X1	UP	48W8989	UP	4N6724, 8N7812	28/29
641						
D346 8 CYL	64F1	64F1218				11
D346 8 CYL	41M1	UP				11
641B						
D346 8 CYL	65K1	65K984				12
D346 8 CYL	65K985	65K1083				12
D346 8 CYL	65K1084	UP	73X1	UP	8S6451	12
650						
D346 8 CYL	63F1	63F79			7M1046	11
D346 8 CYL	77F1	UP			1S7869	11
650B						
D346 8 CYL	58K1	58K412				12
D346 8 CYL	58K413	UP	73X1	UP	8S6451	12
651						
D346 8 CYL	33G1	33G336				11
D346 8 CYL	44M1	UP				11
657						
D343 6 CYL	19G1	19G516				11
D346 8 CYL	31G1	31G231				11
D346 8 CYL	46M1	46M177				11

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
657B						
D343 6 CYL	53K1	53K637				11
D343 6 CYL	53K638	UP	52K1	UP		11
D346 8 CYL	68K1	68K1034				12
D346 8 CYL	68K1035	UP	73X1	UP	8S6451	12
D343 6 CYL	47M1	47M111				11
D343 6 CYL	47M112	UP	52K1	UP		11
660						
D346 8 CYL	77F1	UP			1S7869	11
D346 8 CYL	90F1	90F175			7M1046	11
660B						
D346 8 CYL	58K1	58K412				12
D346 8 CYL	58K413	UP	73X1	UP	8S6451	12
666						
D346 8 CYL	77F1	UP			1S7869	11
D343 6 CYL	20G1	20G241				11
D346 8 CYL	32G1	UP				11
D346 8 CYL	64H1	UP			1S7869	11
D343 6 CYL	20G242	UP	52K1	UP		11
666B						
D346 8 CYL	66K1	66K230				12
D346 8 CYL	66K231	UP	73X1	UP	8S6451	12
768B						
D343 6 CYL	79S1	79S79				11
D343 6 CYL	79S80	UP	52K1	UP	8S9995	11
768C						
3408 8 CYL	2X1	UP	48W4828	UP	4N7722, 1W769	28/29/
769						
D343 6 CYL	99F1	99F1120				11
769B						
D343 6 CYL	99F1121	UP	52K1	UP		11
769C						
3408 8 CYL	1X1	UP	48W4828	UP	4N7722, 1W769	28/29
772						
D346 8 CYL	11S1	11S182				12
D346 8 CYL	11S183	UP	73X1	UP	9S6161	12
D346 8 CYL	80S1	UP				12
772B						
3412 12 CYL	64W1	UP	73W1	UP	4N7826, 1W773	28/29
773						
D346 8 CYL	63G1	63G1415				12
D346 8 CYL	63G1416	UP	73X1	UP	9S6161	12
773B						
3412 12 CYL	63W1	UP	73W1	UP	4N7826, 1W773	28/29
776						
D348 12 CYL	14H1	UP	98S1	UP	4N8830	12

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
777						
D348 12 CYL	84A1	UP	98S1	98S74	4N8830	12
D348 12 CYL	84A1	UP	98S75	UP	4N8830	12
779						
D348 12 CYL	45H1	UP				12
814						
3306 6 CYL	90P1	90P202				7
3306 6 CYL	90P203	UP	3N1	3N75187	2P6801, 4N7369	7
3306 6 CYL	90P266	UP	3N75188	UP	7N1538	7
3306 6 CYL	14R1	14R149			6A3819	7
3306 6 CYL	14R150	UP	49V1	49V9318	2P6801, 6A4670	7
3306 6 CYL	14R150	UP	49V1	49V9318	6A9734	7
814B						
3306 6 CYL	16Z1	UP	8Z3945	UP	6N5908	26
815						
3306 6 CYL	91P1	91P527				7
3306 6 CYL	91P528	UP	3N1	3N75989	2P6802, 4N7370	7
3306 6 CYL	91P753	UP	3N75990	UP	4N7370	7
3306 6 CYL	15R1	15R200			2P444	7
3306 6 CYL	15R201	UP	49V1	49V9318	2P6802, 6A4671	7
3306 6 CYL	15R201	UP	49V1	49V9318	6A9735	7
815B						
3306 6 CYL	17Z1	UP	8Z3945	UP	6N5908	26
816						
3306 6 CYL	57U1	57U197			4N4162	7
3306 6 CYL	57U198	UP	3N1	3N75989	4N4463, 4N7371	7
3306 6 CYL	57U351	UP	3N75990	UP	4N7371	7
816B						
3306 6 CYL	15Z1	UP	8Z3945	UP	6N5908	26
824						
D340 4 CYL	29G1	29G268				11
824B						
D343 6 CYL	36H1	36H1138				11
D343 6 CYL	36H1139	UP	52K1	UP	8S9991	11
824C						
3406 6 CYL	85X1	UP	70V1	UP	8N2585, 1W1596	28/29
825B						
D343 6 CYL	43N1	43N882				11
D343 6 CYL	43N883	UP	52K1	UP	8S9991	11
825C						
3406 6 CYL	86X1	UP	70V5389	UP	6N2585, 1W1596	28/29
826B						
D343 6 CYL	58U1	58U147				11
D343 6 CYL	58U148	UP	52K1	UP	1P4364	11
826C						
3406 6 CYL	87X1	UP	70V5389	UP	6N2585, 1W1596	28/29

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
834						
D343 6 CYL	43E1	UP				11
835						
D343 6 CYL	44N1	UP				11
910						
3204 4 CYL	80U6735	UP	45V17160	UP	7N3700	5
910B						
3204 4 CYL	40Y1	UP	45V22881	UP	7N9433	5
3204 4 CYL	41Y1	UP	45V22861	UP	7N9437	5
920						
3304 4 CYL	41J1	41J2576			8S4196, 6A3548	7
3304 4 CYL	41J2577	41J4370	48V1	48V14491	2P6777, 6A4615	7
3304 4 CYL	41J2577	41J4370	48V1	48V14491	5C3508, 6A7360	7
3304 4 CYL	62K1	62K4605			8S4351	7
3304 4 CYL	62K4606	UP	78P1	78P45222	2P6777, 4N3802	7
3304 4 CYL	62K7095	UP	78P45223	UP	4N3802, 7N1515	7
930						
3304 4 CYL	79J1	79J2223				7
3304 4 CYL	79J2224	UP	48V1	48V38454	2P6782, 6A4616	7
3304 4 CYL	79J3733	UP	48V38455	UP	5C3509, 6A7360	7
3304 4 CYL	41K1	41K3207			8S2675	7
3304 4 CYL	41K3208	UP	78P1	78P45003	4N3807, 7N1522	7
3304 4 CYL	41K3798	UP	78P45004	UP	4N3807, 7N1522	7
931						
3204 4 CYL	8N1	UP	45V1	UP	7N3800	5
3204 4 CYL	10N1	UP	45V1	UP	7N3800	5
3204 4 CYL	78U1	UP	45V1	UP	7N3800	5
3204 4 CYL	81U1	UP	45V1	UP	7N3800	5
931B						
3204 4 CYL	25Y1	UP	45V21898	UP	7N5139, 1W162	5
3204 4 CYL	26Y1	UP	45V21898	UP	7N5139	5
3204 4 CYL	29Y1	UP	45V21898	UP	7N6938	5
3204 4 CYL	30Y1	UP			7N6938, 1W164	5
941B						
3304 4 CYL	70H1	70H2941			6A3018	7
3304 4 CYL	70H2942	70H4263	48V1	48V16808	2P6776, 6A5541	7
3304 4 CYL	70H2942	70H4263	48V1	48V16808	6A7355	7
3304 4 CYL	75H1	UP				7
3304 4 CYL	80H1	80H3883			7S4987	7
3304 4 CYL	80H3884	80H5702	78P1	78P18798	2P6776, 4N3801	7
3304 4 CYL	80H5703	UP	78P18799	78P45231	4N3801, 7N1519	7
3304 4 CYL	80H5703	UP	78P45232	UP	7N1519	7
943						
3204 4 CYL	31Y1	UP	10X1	UP	4N8376	5
944						
D330 4 CYL	43A1	43A4212				6
D330C 4 CYL	77J1	UP				7

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
944A						
D330 4 CYL	43A1	43A4212				6
D330 4 CYL	70A1	70A278				6
D330C 4 CYL	87J1	UP				7
950						
3304 4 CYL	43J1	43J4063				7
3304 4 CYL	43J4064	UP	48V1	48V38782	2P6785, 6A4617	7
3304 4 CYL	43J6268	UP	48V38783	UP	6A7362, 5C2085	7
3304 4 CYL	73J1	UP	43V1	UP	7S4124, 4N3975	7
3304 4 CYL	81J1	81J5410			7S1425	7
3304 4 CYL	81J5411	UP	78P1	78P44446	2P6785, 4N3975	7
3304 4 CYL	81J7846	UP	78P44447	UP	4N3975	7
3304 4 CYL	31K1	31K1200				7
3304 4 CYL	31K1201	UP	78P1	78P44446	2P6785, 4N3975	7
3304 4 CYL	31K1486	UP	78P44447	UP	4N3975	7
3304 4 CYL	49U1	49V237				7
3304 4 CYL	49U238	UP	78P1	78P10810	2P9561	7
3304 4 CYL	90A1	90A343				6
3304 4 CYL	58H1	58H135				6
951B						
3304 4 CYL	72J1	72J1952				7
951C						
3304 4 CYL	86J1	86J2597			7S4983	7
3304 4 CYL	86J2598	UP	78P1	78P45218	2P6779, 7N1521	7
3304 4 CYL	86J4042	UP	78P45219	UP	7N1521	7
3304 4 CYL	69H1	69H2519				7
3304 4 CYL	69H2520	UP	48V1	48V28779	2P6779, 6A5546	7
3304 4 CYL	69H3703	UP	48V38780	UP	6A8666, 5C1596	7
955H						
D330 4 CYL	60A1	60A9889				6
955K						
D330 4 CYL	72A1	72A3240				6
3304 4 CYL	84J1	84J3609				7
3304 4 CYL	84J3610	84J7631	48V1	48V12822	2P6783, 6A5545	8
3304 4 CYL	84J3610	84J7631	48V1	48V12822	6A7359	8
3304 4 CYL	71J1	UP				7
3304 4 CYL	85J1	85J6246				7
3304 4 CYL	85J6247	UP	78P1	UP	2P6788, 4N3974	7
955L						
3304 4 CYL	13X1	UP	78P38513	78P44445	4N3974	7
3304 4 CYL	13X1	UP	78P44446	UP	4N3974, 7N1524	7
966						
D333 6 CYL	33A1	33A2110				6
966C						
3306 6 CYL	78G1001	78G1604	44V1	UP	2P6800, 4N7368	7
3306 6 CYL	42J1	42J3565			7S4127, 6A3819	7
3306 6 CYL	42J3566	42J6497	49V1	49V9318	2P6800, 6A4669	7

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
3306 6 CYL	42J3566	42J6497	49V1	49V9318	6A9733, 5C3530	7
3306 6 CYL	76J1	76J6388			7S4127	7
3306 6 CYL	76J6389	76J7945	3N1	3N24132	2P6800, 4N7368	7
3306 6 CYL	76J7946	UP	3N24133	3N75955	4N7368	7
3306 6 CYL	76J7946	UP	3N75956	UP	4N7368	7
3306 6 CYL	30K1	30K1624			7S4127	7
3306 6 CYL	30K1625	UP	3N1	3N75955	2P6800, 4N7368	7
3306 6 CYL	30K1973	UP	3N75956	UP	4N7368	7
977A						
D330 4 CYL	43D1	UP				6
977H						
D333 6 CYL	53A1	53A5782				6
977K						
3306 6 CYL	48J1	48J1058			6A3093	7
3306 6 CYL	48J1059	48J2010	49V1	49V8583	2P6804, 6A5551	7
3306 6 CYL	48J1059	48J2010	49V1	49V8583	6A9732	7
3306 6 CYL	70J1	UP				7
977L						
3306 6 CYL	11K1	11K5082			7S4480	7
3306 6 CYL	11K5083	UP	3N1	3N75989	2P6804, 4N7373	7
3306 6 CYL	11K6441	UP	3N75990	UP	4N7373	7
3306 6 CYL	14X1	UP	3N69600	3N75983	7N1544	7
3306 6 CYL	14X1	UP	3N75984	UP	8N3189	7
980B						
3306 6 CYL	89P1	89P883				8
3306 6 CYL	89P884	89P2167			9S9000	8
3306 6 CYL	89P2168	UP	3N1	UP	2P8812, 4N7377	8
980C						
3406 6 CYL	63X1	UP	70V4683	UP	6N2069	28/29
983						
D343 6 CYL	38K1	38K764				11
D343 6 CYL	38K765	UP	52K1	UP	8S9989	11
983B						
3406 6 CYL	88X1	UP	70V5101	UP	6N2222	28/29
988						
D343 6 CYL	87A1	UP				11
988B						
3408 8 CYL	50W1	UP	48W1	UP	4N6254, 8N1843	28/29
992						
D348 12 CYL	25K1	UP	98S1	UP	7S8287	12
992C						
3412 12 CYL	42X1	UP	73W1	UP	6N204	28/29

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
D315				
4 CYL	9S5001	9S6702	MARINE ENGINE	1
4 CYL	9S6703	9S13357	MARINE ENGINE	2
4 CYL	4V1	4V921	DIESEL ELECTRIC SET	1
4 CYL	4V922	4V1471	DIESEL ELECTRIC SET	2
4 CYL	5V1	5V283	MARINE ENGINE	1
4 CYL	5V284	5V540	MARINE ENGINE	2
D318				
6 CYL	45B1	45B1494	INDUSTRIAL ENGINE	3
6 CYL	3V5001	3V5639	DIESEL ELECTRIC SET	1
6 CYL	3V5640	3V6166	DIESEL ELECTRIC SET	2
6 CYL	5V5001	5V12331	INDUSTRIAL ENGINE	1
6 CYL	5V12332	UP	INDUSTRIAL ENGINE	2
6 CYL	6V1	6V404	MARINE ENGINE	1
6 CYL	6V405	6V784	MARINE ENGINE	2
D330A				
4 CYL	6A06000	UP	D330A TRUCK	6
4 CYL	56B1	UP	INDUSTRIAL ENGINE	6
4 CYL	57B1	UP	MARINE ENGINE	6
4 CYL	85B1	85B145	INDUSTRIAL ENGINE	6
4 CYL	86B1	86B35	MARINE ENGINE	6
D330B				
4 CYL	81B1	81B428	INDUSTRIAL ENGINE	6
4 CYL	81B429	UP	INDUSTRIAL ENGINE	6
4 CYL	82B1	82B116	MARINE ENGINE	6
4 CYL	85B117	UP	INDUSTRIAL ENGINE	6
4 CYL	98B1	UP	INDUSTRIAL ENGINE	6
4 CYL	99B1	UP	MARINE ENGINE	6
D330C				
4 CYL	2B1	UP	INDUSTRIAL ENGINE	7
4 CYL	4B1	UP	INDUSTRIAL ENGINE	8
4 CYL	5B1	UP	MARINE ENGINE	8
D333A				
6 CYL	58B1	UP	INDUSTRIAL ENGINE	6
6 CYL	59B1	59B491	MARINE ENGINE	6
6 CYL	59B492	UP	MARINE ENGINE	6
6 CYL	87B1	87B1491	INDUSTRIAL ENGINE	6
6 CYL	88B1	88B181	MARINE ENGINE	6
D333B				
6 CYL	79B1	79B1823	INDUSTRIAL ENGINE	6
6 CYL	80B1	80B446	MARINE ENGINE	6
D333C				
6 CYL	23C1	UP	INDUSTRIAL ENGINE	7
6 CYL	66D1	66D8890	INDUSTRIAL ENGINE	8
6 CYL	67D1	67D1102	MARINE ENGINE	8
D339				
4 CYL	34B1	34B1664	INDUSTRIAL ENGINE	9

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
D342			VEHICULAR ENGINE, U.S.	
6 CYL	17S1	UP	4N4444, 4N4445, 4N7664, 7N3490, 7N3492	10
6 CYL	50V1	UP	4N4445	10
D342C				
6 CYL	31B1	31B3109	INDUSTRIAL ENGINE	9
D342C				
6 CYL	31B3110	UP	INDUSTRIAL ENGINE	10
6 CYL	32B1	32B1765	MARINE ENGINE	9
6 CYL	32B1766	UP	MARINE ENGINE	10
6 CYL	49B1	49B321	INDUSTRIAL ENGINE	9
6 CYL	49B322	UP	INDUSTRIAL ENGINE	10
6 CYL	50B1	50B300	MARINE ENGINE	9
6 CYL	50B301	UP	MARINE ENGINE	10
D343			INDUSTRIAL ENGINE, U.S.	
6 CYL	62B1	UP	1N5839	11
D343A			MARINE ENGINE U.S.	
6 CYL	33B1	UP	1N5953, 1N5853, 3N1453	11
D346				
8 CYL	39J1	UP	INDUSTRIAL ENGINE	12
8 CYL	40J1	40J520	MARINE ENGINE	12
8 CYL	98N1	98N430	TRUCK ENGINE	12
D348				
12 CYL	36J1	36J148	INDUSTRIAL ENGINE	12
12 CYL	38J1	UP	MARINE ENGINE	12
12 CYL	57K1	UP	TRUCK ENGINE	12
D349				
16 CYL	61P1	UP	INDUSTRIAL ENGINE	12
16 CYL	62P1	UP	MARINE ENGINE	12
16 CYL	32R1	UP	TRUCK ENGINE	12
D353C				
6 CYL	46B1	46B669	INDUSTRIAL ENGINE	13
6 CYL	47B1	47B408	MARINE ENGINE	13
6 CYL	47B409	47B459	MARINE ENGINE	14
D353D			INDUSTRIAL ENGINE, U.S.	
6 CYL	46B809	46B2436	4L8621, 8L3921	14
D353D			MARINE ENGINE, U.S.	
6 CYL	47B470	47B1779	8L3922	14
D353E			INDUSTRIAL ENGINE, U.S.	
6 CYL	46B2437	46B4800	4L8821, 8L3921	14
6 CYL	46B4801	UP	8L3921, 7N3199, 7N4434, 7N4374	14
D353E			MARINE ENGINE, U.S.	
6 CYL	47B1780	47B4207	8L3922	14
6 CYL	47B4208	UP	8N3499, 7N3200	14

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
G353			NATURAL GAS ENGINE, U.S.	
6 CYL	64B1	UP	5L9560, 5L9600	14
6 CYL	64B809	UP	5L4911, 5L4912, 5L4913, 5L4914	14
D353			VEHICULAR ENGINE, U.S.	
6 CYL	97U1	97U5911	4N5998, 4N7590, 4N7592, 4N7665	14
			8S3233, 8S3239, 9S2427, 9S7117	14
6 CYL	97U5912	97U7921	4N5998, 4N7590, 4N7592, 4N7665	15
			7N3240, 7N3241	15
D364				
8 CYL	19B1	19B335	INDUSTRIAL ENGINE	17
8 CYL	20B1	20B102	MARINE ENGINE	17
8 CYL	21B1	21B368	DIESEL ELECTRIC SET	17
D375				
8 CYL	16B1	16B439	INDUSTRIAL ENGINE	17
8 CYL	17B1	17B211	MARINE ENGINE	17
D375				
8 CYL	18B1	18B197	DIESEL ELECTRIC SET	17
D375D				
8 CYL	43B1	UP	6H3235, 6H3245, 6H3255, 2L0125	17
			2L0165, 2L0175, 2L2513, 2L5105	17
			2L5106, 3L9165, 3L9175, 3L9185	17
8 CYL	44B1	UP	6H3236, 6H3246, 6H3256, 2L0126	17
			2L0166, 2L0176, 2L5108, 2L5109	17
			2L5564, 2L6577, 3L9166, 3L9176	17
			3L9186, 3L9196	17
D379A				
8 CYL	68B1	68B1615	5L2736, 5L7143, 4L1129, 6L4985	14
8 CYL	69B1	69B823	MARINE ENGINE	14
D379B				
8 CYL	68B1616	68B6680	INDUSTRIAL ENGINE	14
8 CYL	68B6681	UP	INDUSTRIAL ENGINE	17
8 CYL	69B824	69B2087	MARINE ENGINE	14
8 CYL	69B2088	UP	MARINE ENGINE	17
8 CYL	76B1	UP	5L2736, 5L7143, 4L1129, 6L4985	14
8 CYL	34Z1	34Z513	5N7276	14
8 CYL	34Z514	UP	5N7276	17
G379			NATURAL GAS ENGINE, U.S.	
8 CYL	72B1	72B84	5L3477	14
8 CYL	72B85	UP	3N1161	17
D386				
12 CYL	13B1	13B258	INDUSTRIAL ENGINE	15
12 CYL	14B1	UP	MARINE ENGINE	15
12 CYL	15B1	15B71	DIESEL ELECTRIC SET	15
D397				
12 CYL	10B1	10B725	INDUSTRIAL ENGINE	15
12 CYL	11B1	UP	MARINE ENGINE	15
12 CYL	12B1	12B399	DIESEL ELECTRIC SET	15

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
D397D			INDUSTRIAL ENGINE, U.S.	
12 CYL	41B1	41B2498	6H3233, 6H3243, 6H3253, 2L123	15
			2L163, 2L173, 2L2512, 2L4977	15
			2L5101, 3L8483, 3L8493, 3L8503	15
D397D			MARINE ENGINE, U.S.	
12 CYL	42B1	42B458	6H3234, 6H3254, 2L124, 2L164	15
			2L5103, 2L6576, 3L7003, 3L7004	15
D398A			INDUSTRIAL ENGINE, U.S.	
12 CYL	66B1	66B2048	4L1127, 5L2664, 5L7149, 6L4984	14
12 CYL	67B1	67B919	MARINE ENGINE	14
D398B				
12 CYL	66B2049	66B8572	INDUSTRIAL ENGINE	14
12 CYL	66B8573	UP	INDUSTRIAL ENGINE	17
12 CYL	67B920	67B2339	MARINE ENGINE	14
12 CYL	67B2340	UP	MARINE ENGINE	17
D398B			INDUSTRIAL ENGINE, U.S.	
12 CYL	75B1	UP	4L1127, 5L2664, 5L7149, 6L4984	14
D398B			GENERATOR SET, U.S.	
12 CYL	35Z1	35Z542	5N7277	14
12 CYL	35Z543	UP	5N7277	17
D399				
16 CYL	35B1	35B5936	INDUSTRIAL ENGINE	14
16 CYL	35B5937	UP	INDUSTRIAL ENGINE	17
16 CYL	91B1	91B1225	MARINE ENGINE	14
16 CYL	91B1226	UP	MARINE ENGINE	17
16 CYL	36Z1	36Z565	GENERATOR SET	38
16 CYL	36Z566	36Z1431	GENERATOR SET	19
16 CYL	36Z1432	UP	GENERATOR SET	19
G399			NATURAL GAS ENGINE, U.S.	
16 CYL	49C1	49C260		14
16 CYL	49C261	UP	3N1197, 3N3373, 3N3340, 3N3374	18
1140				
8 CYL	36B1	UP	TRUCK ENGINE	5
1145				
8 CYL	97B1	UP	TRUCK ENGINE	5
1150				
8 CYL	96B1	UP	TRUCK ENGINE	5
1160				
8 CYL	95B1	UP	TRUCK ENGINE	5
1670				
4 CYL	61B1	UP	1670 TRUCK	6
1673				
6 CYL	70B1	70B2299	TRUCK ENGINE	6
6 CYL	74B1	74B108	TRUCK ENGINE	6
6 CYL	74B109	UP	TRUCK ENGINE	6

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
1673C				
6 CYL	89D1	UP	TRUCK ENGINE	8
6 CYL	76R1	UP	TRUCK ENGINE	8
1693				
6 CYL	65B1	UP	TRUCK ENGINE	11
3145				
8 CYL	96M1	UP	INDUSTRIAL ENGINE	5
8 CYL	65P1	UP	ELECTRIC SET	5
3150				
8 CYL	97M1	UP	INDUSTRIAL ENGINE	5
8 CYL	66P1	UP	ELECTRIC SET	5
3160				
8 CYL	98M1	UP	INDUSTRIAL ENGINE	5
8 CYL	67P1	UP	ELECTRIC SET	5
8 CYL	68P1	UP	MARINE ENGINE	5
3204			VEHICULAR ENGINE, JAPAN	
4 CYL	45V1	45V17159	4N0169, 4N0303	4
4 CYL	45V17160	UP	7N3800, 7N5139, 7N6938, 7N9433	5
			7N9437, 1W0162, 1W0163, 1W0164	5
4 CYL	10X1	UP	7N0072	5
3208				
8 CYL	29A00225	UP	GENERATOR SET	5
8 CYL	30A00210	UP	GENERATOR SET	5
3208T			GENERATOR SET, U.S.	
8 CYL	30A2018	30A3263	7C1192, 7W6918, 7W8603, 9Y8574, 9Y8575	41
3208				
8 CYL	90N1	UP	INDUSTRIAL ENGINE	5
3208				
8 CYL	40S1	UP	TRUCK ENGINE	5
8 CYL	75V1	UP	MARINE ENGINE	5
8 CYL	79V1	UP	VEHICULAR ENGINE	5
3208				
8 CYL	32Y1	UP	TRUCK ENGINE	5
3208T			MARINE ENGINE, U.S.	
8 CYL	1Z1	UP	8N7637, 1W5900, 1W5070	41
3208T			TRUCK ENGINE, U.S.	
8 CYL	2Z2061	2Z2449	9N5996, 9N5997, 9N5998	41
			9N6479, 9N6482, 9N6484, 1W6715,	41
			1W7467, 1W7468, 1W7469, 1W7470,	41
			1W7471, 1W7472, 1W7497, 1W7498,	41
			1W8699, 1W9808, 1W9809, 2W0675,	41
			2W0676, 2W1125, 2W2416, 2W4948,	41
			2W4949, 2W4950, 2W4951, 2W5178,	41
			2W5179, 2W5180, 2W5181, 2W5182,	41
			2W8178, 2W8217, 2W8218, 2W8219,	41
			2W8227, 2W8612, 2W9125, 7W2659,	41

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3208T			TRUCK ENGINE, U.S.	
8 CYL	2Z2061	2Z2449	7W2664, 7W2665, 7W2906, 7W2907,	41
8 CYL	2Z13753	UP	7W2911, 7W2912, 7W3002, 7W3003,	41
			7W3004, 7W3005, 7W3203, 7W3300,	41
			7W3301, 7W3302, 7W3303, 7W3304,	41
			7W4046, 7W4147, 7W5658, 7W6769,	41
			7W8921, 7W8922, 7W8923, 7W8924,	41
8 CYL	2Z50809	2Z62518	7W9386, 7W9387, 7W9388, 9Y7049	41
			9Y7050, 9Y7051, 9Y7052, 9Y7053,	41
			9Y7053, 9Y7054, 9Y7055, 9Y7056,	41
			9Y8188, 9Y9275, 9Y9276, 9Y9277	41
			9Y9278, 9Y9279, 9Y9280, 9Y9281,	41
			9Y9282, 9Y9283, 9Y9284, 9Y9285,	41
			9Y9866, 9Y9867, 9Y9868, 9Y9869	41
			9Y9870, 9Y9871	41
8 CYL	2Z40745	2Z65229	7C3555, 7C5640, 7C5642, 7C6471,	41
			7C6472, 7C6473, 7C6474, 7C6475,	41
			7C6478, 7C6479, 7C6642, 7C8805,	41
			7C8807, 7C8811, 7C8812, 7C8822,	41
			7C8823, 7C8833, 7C8838, 7C8842,	41
3208T			INDUSTRIAL ENGINE, U.S.	
8 CYL	3Z1	UP	8N4046, 8N7094, 8N7095, 8N7122,	41
			1W8699,	41
3304			INDUSTRIAL ENGINE, U.S.	
4 CYL	2B4226	2B11013	3M3205, 3N5410, 3N6705, 4N4205, 4N9957, 4N9958,	20
4 CYL	2B11014	2B11479	6N1103, 6N1104, 6N1105, 7N3272, 7N3273, 7N3274,	20
			7N3275, 7N3277,	20
4 CYL	2B11867	2B17737	8N5748, 8N5749, 8N5750, 1W2468, 2W5900, 7W5765,	20
4 CYL	2B1		2T5284	8
4 CYL	2B15964	2NB17304	1W2468, 2W5900, 7W5765,	8
4 CYL	4B6032	4B145000	1N4427, 3N3207, 3N6707, 4N4207, 4N9959, 4N9960,	20
			6N1106, 6N1107, 6N1108, 6N1308, 7N3301, 7N3302,	20
			7N3303, 7N3304, 7N3305, 8N3495	20
4 CYL	4B14500	4B25776	1W1599, 2W2185, 4W4647,	20
4 CYL	4B18213	4B26762	8N5751, 8N5752, 8N5753, 1W1529, 2W2185,	8
3304			INDUSTRIAL ENGINE, BELGIUM	
4 CYL	4XB1	4XB792	6C0822, 6C2311, 6C2923, 6C3948, 9Y1720,	25
3304			MARINE ENGINE, U.S.	
4 CYL	5B1197	5B2364	3N3208, 4N4208, 7N3278,	8
3304			GENERATOR ENGINE, BRAZIL	
4 CYL	6YB1		2T5284	8
4 CYL	6YB604		2Y9254	8
4 CYL	4PC1		2Y7924	8
3304			INDUSTRIAL ENGINE, U.S.	
4 CYL	10E300	10E1022	4N7765, 1W3871, 1W3875, 1W3876, 1W3877, 4W3918,	25
4 CYL	10E2395	10E4554	5Y0464, 9Y1720, 9Y6208, 1118013	25
3304B			GENERATOR ENGINE, U.S.	
4 CYL	9HK1		1004416	25

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3304			VEHICULAR ENGINE, U.S.	
4 CYL	78P1	78P19681	4N3799,4N3801,4N3802,4N3803,4N3806,4N3807, 7N2300,7N2301,2P6775,2P6776,2P6776,2P6777, 2P6778,2P6779,2P6780,2P6781,2P6782,	7 7 7
4 CYL	78P45004	78P56416	7N1515,7N1516,7N1517,7N1519,7N1520,7N1521, 7N1522,	7 7
4 CYL	78P47088	78P56484	7N1521,7N1522,7N1523,7N1524,7N1525,	20
4 CYL	78P1	78P409000	4N3974,4N3976,7N1523,7N1524,7N1525,7N1526,	20
3304			VEHICULAR ENGINE, U.S.	
4 CYL	78P1	78P409000	7N1528,2P6484,2P6783,2P6784,2P6785,2P9561, 3P0134,3P0136,	20 20
3304			VEHICULAR ENGINE, JAPAN	
4 CYL	43V1	43V1056	7N3586,7N3587,7N3588,7N3589,7N3590,7N3592, 2P6775,2P6776,2P6777,2P6778,2P6782,2P6786, 2P6787,3Y1602,	21 21 21
4 CYL	43V2456	43V16377	4N3804,7N3897,	21
4 CYL	43V1	43V11220	5C5462,5C5463,4N3804,7N3593,7N3594,2P6775, 2P6776,2P6777,2P6778,2P3782,2P6786,2P6787, 3Y1602,	7 7 7
4 CYL	43V11221	43V19003	7N3586,7N3587,7N3589,7N3590,7N3591,7N3592, 7N3897,	7 7
4 CYL	43V1	43V16480	4N3975,7N3593,7N3594,2P6783,2P6785,	20
3304			VEHICULAR ENGINE, BRAZIL	
4 CYL	46V1	46V3189	1Y7228,2Y1775,2Y2006,2Y2007,2Y2415,2Y4000,	7
4 CYL	46V9484	46V9547	2Y2415,2Y9365,	7
3304			VEHICULAR ENGINE, BELGIUM	
4 CYL	48V6	48V14491	6A4615,6A4616,6A5541,6A5543,6A5544,6A5546, 2P6775,2P6776,2P6777,2P6778,2P6779,2P6781, 2P6782,	7 7 7
4 CYL	48V1	48V52798	6A4617,6A5545,6A6501,6A7359,6A7362,6A8666, 2P6783,2P6785,	7 7
4 CYL	48V10545	48V52811	6A7355,6A7356,6A7357,6A7360,6A7361,	7
4 CYL	48V52812		6A7361,5C5462,	20
3304G			NATURAL GAS ENGINE, U.S.	
4 CYL	37Y1	37Y1019	8N4921,8N5943	23
4 CYL	37Y1020	37Y2145	7N4315,7N6509,8N4921,8N5943,1029431,1029432	24
3304			VEHICULAR ENGINE, JAPAN	
4 CYL	9Z1		6N6878	25
3304			VEHICULAR ENGINE, U.S.	
4 CYL	7Z1	7Z5694	6N6878,7N2330,2W0821	25
4 CYL	7Z20112	7Z27109	4P4246,9Y1720	25
3304			VEHICULAR ENGINE, BELGIUM	
4 CYL	12Z1	12Z21520	5C8862,5C8965,7C4736,9Y1720,1148904,	25
4 CYL	12Z32562	12Z34785	7E2861,7E2862,7E2863,7E2864,	25
3304			VEHICULAR ENGINE, BRAZIL	
4 CYL	59Z1	59Z1930	2Y6293,2Y6294,2Y6295,2Y7227,2Y7229,2Y9463,	7
4 CYL	59Z505	59Z1974	2Y7595,2Y9463,2Y9471,	8

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3304			GENERATOR ENGINE, U.S.	
4 CYL	83Z538	83Z8934	1W3874,1W3878,1W3879,1W9158,1262411,	25
3306B			GENERATOR SET, BRAZIL	
6 CYL	7HB1	7HB340	2Y5286,2Y9066,2Y9236,7Y9490	8
3306B			INDUSTRIAL ENGINE, BELGIUM	
6 CYL	7JB1	7JB8103	6C1294,6C1512,6C1780,6C2331,6C2925,6C3395,	25
			6C3501,6C3731,6C7381,2W1557,4W6272,	25
3306			INDUSTRIAL ENGINE, BRAZIL	
6 CYL	4WB1		2Y6593,2Y7745	8
3306B			GENERATOR SET, BELGIUM	
6 CYL	5JC436	5JC588	7C0777,7C0778,7C8711,7C8716,7C8721,7W3020,	25
			7W3021	25
3306			GENERATOR SET, BRAZIL	
6 CYL	2ZC1	2ZC241	2Y7926,2Y9535	8
3306			INDUSTRIAL ENGINE, U.S.	
6 CYL	23C842	23C1320	3N3226,3N4046,4N4226,	7
6 CYL	23C1513	23C1848	7N3377,8N3417,1W2469,4W4648,	7
6 CYL	23C1818		1W2469	8
6 CYL	23C2002		7W5764	8
3306B			TRUCK ENGINE, BELGIUM	
6 CYL	5KD1	5KD2350	6C2925,6C7381,7C7249,7E3533,7E3534,7E3535,	25
			7E6778,7E6779,7E7398,7E9401,7W6037,	25
3306B			VEHICULAR ENGINE, BRAZIL	
6 CYL	8TD3150	8TD10430	4P7851,2Y9563,9Y9925,5Y0466,1256715,	25
3306			INDUSTRIAL ENGINE, U.S.	
6 CYL	66D1370	66D2498	3N3210,3N8100,4N4209,4N4210,4N9961,4N9962,	8
			6N1108,6N1109,6N1309,6N5663,	8
6 CYL	66D1	66D8890	8L4507,	7
6 CYL	66D8891	66D26999	3N3209,3N6309,3N6709,3N7009,3N8100,4N4209,	8
			4N9961,4N9962,6N1108,6N1109,6N1309,6N3323,	8
			6N5663,7N3383,7N3388,7N5889,7N7774,7N7775,	8
			7N8136,	8
6 CYL	66D27000	66D32186	3N3209,3N6709,3N7009,4N4209,4N9961,4N9962,	8
			6N1108,6N1109,6N1309,6N1989,6N3743,6N5663,	8
			6N5917,6N6294,7N3379,7N3380,7N3381,7N3382,	8
			7N3383,7N3384,7N3385,7N3386,7N3387,7N3388,	8
			7N3389,7N3390,7N4316,7N5889,7N7774,7N7775,	8
			7N7992,7N8136,7N9317,8N4559,	8
6 CYL	66D29456	66D32186	7N3381,7N3382,7N3387,7N3389,7N4316,7N8317	20
6 CYL	66D32187	66D42269	7N6739,7N9638,8N1506,8N4560,8N4561,8N5115,	7
			8N5116	7
6 CYL	66D35078		8N3418,8N3419,8N3420,8N3421,8N3422	8
6 CYL	66D37708		1N4213,1N4214	8
3306			INDUSTRIAL ENGINE, U.S.	
6 CYL	66D42953		1N4392,1N4393,1N4394,8N1506,1W1533,1W1534	8
6 CYL	66D47161		4W4649	8

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3306			MARINE ENGINE, U.S.	
6 CYL	67D1	67D1102	8L4507	7
6 CYL	67D1103	67D2863	3N3210,4N4210,6N5958,7N3375	8
3306			VEHICULAR ENGINE, BRAZIL	
6 CYL	1AF319		7W6847,2Y9923,	25
3306B			GENERATOR ENGINE, U.S.	
6 CYL	2AJ1	UP	4C1959,7C7248,7C7249,7W9145,7W9146,7W9507,	25
			7W9760,9Y0032,9Y0137,9Y0477,9Y0479,9Y0540,	25
			9Y0826,9Y1292,9Y2190,9Y2191,9Y2213,9Y2640,	25
			9Y3026,9Y3027,9Y4713,9Y4714,9Y4715,9Y4716,	25
			9Y4717,9Y4718,9Y4852,9Y4853,9Y4854,9Y4855,	25
			9Y5382,5Z7900,5Z9864,5Z9984,	25
3306B			GENERATOR SET, U.S.	
6 CYL	8JJ1	8JJ243	6I1900,1302235,	25
3306C			TRUCK ENGINE, U.S.	
6 CYL	7RJ1	UP	6I0513,6I0518,6I0532,6I0533,6I0534,6I0535,6I0536,	25
			6I0537,6I0538,6I0539,6I0540,6I0541,6I0542,6I0543,	25
			6I0544,6I0545,6I0546,6I0547,6I0548,6I0549,6I0550,	25
			6I0551,6I0552,6I0553,6I0554,6I0555,6I0556,6I0557,4P9855	25
6 CYL	7RJ1	7RJ2810	1004206,1004207,1006736,1006737,1034734,	25
6 CYL	7RJ1045288	7RJ1045290	1025304,1028798,	25
6 CYL	7RJ1045291	7RJ1045299	1045300,1045301,1045302,1045303,1045304,1045305,	25
			1045306,1045307,1045308,1045309,1045310,1045311,	25
			1045312,1045313,1045314,1045315,1045316,	25
3306			VEHICULAR ENGINE, U.S.	
6 CYL	3N1	UP	4N4439,4N4463,4N4993,4N4994,4N5369,4N6521,	7
			4N7365,4N7366,4N7367,4N7368,4N7369,4N7370,	7
			4N7371,4N7372,4N7373,4N7374,4N7375,4N7376,	7
			6N7715,6N7717,6N8257,7N2504,7N2505,2P6788,	7
			2P6789,2P6790,2P6791,2P6793,2P6794,2P6795,	7
			2P6796,2P6797,2P6798,2P6799,2P6800,2P6801,	7
			2P6802,2P6803,2P6804,2P6805,2P6806,2P6807,2P6808	7
			2P6809,2P6810,2P6811,2P6812,2P6937,3P0075,	7
6 CYL	3N15869		6N0482,6N0484,6N0486,6N0488,	7
6 CYL	3N1	3N55450	4N4506,4N4559,4N8975,6N3414,7N1549,7N1550,	8
			7N1551,7N1552,	8
6 CYL	3N77759		7N1539	7
6 CYL	3N1	3N77760	7N1529,7N1530,7N1531,7N1532,7N1533,7N1534,	20
			7N1536,7N1537,7N1538,7N1539,7N1540,7N1541,	20
			7N1542,7N1543,7N1544	20
6 CYL	3N10246	3N69599	4N7361,4N7363,4N7364,4N7374,4N7376,4N7377,	7
			1P9587,3P0075,	7
6 CYL	3N69600	3N79762	4N3571,4N4439,4N7365,4N7366,4N7368,4N7369	7
			4N7370,4N7371,4N7372,4N7373,4N7376,4N0482,	7
			6N0484,6N0486,6N0488,7N1535,7N1536,7N1537,	7
6 CYL	3N79763	3N99999	7N1538,7N1540,7N1541,7N1542,7N1543,7N1544,	7
			7N1545,7N1546,7N1547,1P9587,2P9637,2P0075,	7
			7N1529,7N1530,7N1531,7N1532,7N1533,7N1534,	7

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3306			VEHICULAR ENGINE, U.S.	
6 CYL	3N79763	3N99999	7N1536,7N1537,7N1538,7N1539,7N1540,7N1541, 7N1542,7N1543,7N1544, 7N4987,7N1549,7N1550,7N1551,7N1552,	7
				7
				7
3306			TRUCK ENGINE, U.S.	
6 CYL	76R274	76R1294	9L5637,9L6097,9L6801,	8
6 CYL	76R1295	76R2809	6N5958,7N3375,9N126,	8
6 CYL	76R2810	76R3474	9N3562,9N3563,9N3564,9N3565,9N3567,9N3568,	8
6 CYL	76R4457		9N6389	8
6 CYL	76R6161		7C6193	8
6 CYL	76R6283		9Y4853,5Z5163	8
6 CYL	76R6985		4P6788	8
3306			VEHICULAR ENGINE, JAPAN	
6 CYL	44V1	44V3268	2P6800,2P6804,2P6805,2P6806	7
6 CYL	44V2	44V3803	2P6794,2P6795	7
6 CYL	44V4611	44V6404	4N3769,4N5359,4N7368,4N7373,2P6788,2P6789,	7
6 CYL	44V4631	44V11877	4N7361,4N7362,4N7363,4N7366,4N7368, 6N0482,6N0484,6N0486,6N0488,2P6794,2P6795, 2P6800,2P6804,2P6805,2P6806	7
				7
6 CYL	44V11878	44V19285	4N4506,4N4559,7N1549,7N1550,7N1551,7N1552, 7N3595,7N3596,7,3597,7N3603,7N3604,7N4646, 7N4647,7N4648,	7
				7
6 CYL	44V12422	44V19288	7N3603,7N3604,	8
6 CYL	44V12220	44V19396	7N3598,7N3599,7N3600,7N3601,7N3602,7N4646, 7N4647,7N4648,7N8933,8N1506	7
				7
6 CYL	44V19289	44V23946	7N3603,7N3604,	7
3306			VEHICULAR ENGINE, BRAZIL	
6 CYL	46V9441		2Y7594	8
3306			VEHICULAR ENGINE, BRAZIL	
6 CYL	47V1	UP	2Y2490,2Y4510	8
6 CYL	47V1	47V3815	2Y2574,4W4392	7
6 CYL	47V1	47V12005	2Y1674,2Y1676,2Y2563,2Y2569,	7
6 CYL	47V1	47V13452	2Y1624,2Y1676,2Y2563,2Y2569,2Y2614, 2Y4110,2Y4220,	7
				7
6 CYL	47V15899		2Y6445	7
6 CYL	47V16384		2Y4550	7
3306			VEHICULAR ENGINE, BELGIUM	
6 CYL	49V1		6A9357	7
6 CYL	49V3065	49V17116	6A4669,6A4671,6A7841,2P6800,2P6801,2P6802, 2P6804	7
				7
6 CYL	49V9	49V24247	6A7841,6A9730,6A9731,6A9732,6A9733,6A9734 6A9735,5C5604,5C6813,2P6794,2P6795,	7
				7
6 CYL	49V24256	49V24262	5C5171,5C5172,5C5173,5C6757	7
6 CYL	49V1	49V24457	6A5547,6A5548,6A9728,6A9729,5C1447,5C5171, 5C5172,5C5173,5C6757	7
				7
3306G			NATURAL GAS ENGINE, BRAZIL	
6 CYL	3CF1	UP	2Y7290	23

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3306G				
6 CYL	7Y1	7Y283	NATURAL GAS ENGINE, U.S.	22
6 CYL	7Y284	7Y290	7N4315,7N4359,7N6509,	23
6 CYL	7Y291	7Y2078	7N4315,7N4359,7N6509,	23
6 CYL	7Y2079	UP	7N4315,7N6509,9Y7892,9Y7893,1029435,1029436	24
6 CYL	7Y4100	7Y4108	7N4315,7N6509	23
6 CYL	7Y4279		9Y7892,9Y7893,1029433,1209434,1029435,1029436	23
3306			VEHICULAR ENGINE, U.S.	
6 CYL	8Z2401	8Z2439	7N1188,7N4980,7N4981,7N4998,	31
6 CYL	8Z1	8Z4240	7N1188,7N4978,7N4980,7N4981,	31
6 CYL	8Z18852		2W0819	31
6 CYL	8Z1		4P7487,1024159,1167588,1251181,	25
6 CYL	8Z7479	8Z27183	7N1141,7N2740,7N5106,8N3207,1W0542,1W0543,	25
			1W0544,1W0545,1W1342,1W1344,1W1346,1W3231	25
6 CYL	8Z30630	8Z38985	7C2032,1W3210,1W3225,7W4152,7W9635,	25
6 CYL	8Z41870	8Z70280	7E0082,6I2027,6I2098,6I2099,6I2100,6I2965,4P4730,	25
			4P4976,9Y0032,9Y2640,	25
6 CYL	8Z73070	8Z77420	1013023,1063145,1065531,	25
6 CYL	8Z86480	8Z89612	1082447,1082448,1082449,1082450,1135371,1167557,	25
			1189720,1224210,1251354,	25
3306			VEHICULAR ENGINE, JAPAN	
6 CYL	10Z322	10Z328	1N4799,1N4800,1N4801,	31
3306			VEHICULAR ENGINE, BELGIUM	
6 CYL	13Z1	UP	5C8756,5C8757,5C8758,5C8759,	31
6 CYL	13Z1	13Z3927	5C0442,6C2231,6C3395,6C8817,9Y4134,9Y0032	25
			1063145,1167570,1167580,1167657,1206603,	25
			1206625,1349457	25
6 CYL	13Z15163		9Y0032,	25
6 CYL	13Z18240		9Y8274	25
6 CYL	13Z20962		7E3412	25
6 CYL	13Z21919		6C3727	25
6 CYL	13Z28100		6I2027,1065531,	25
6 CYL	13Z29000		4P2701	25
6 CYL	13Z32524		7N5106	25
6 CYL	13Z35964		1118040	25
6 CYL	13Z36792	13Z37929	1167567,1229202,1353684,	25
3306			VEHICULAR ENGINE, BRAZIL	
6 CYL	60Z1	60Z2625	2Y5175,9Y9980	7
3306B			TRUCK ENGINE, U.S.	
6 CYL	63Z1	63Z1975	1W2506,1W2509,1W6010,1W7293,2W1850,	25
			2W7382,4W6601,4W6602,4W6603,4W6604,	25
			4W6605,4W6606,4W6607,4W9328,7W3104,	25
			7W3110,7W7478,9Y0137,	25
6 CYL	63Z2173	63Z3057	7C0879,7C1520,7W6511,7W9354,7W9355,7W9356,	25
6 CYL	63Z3631	63Z5381	7C2314,7C2315,7C4596,7C4672,7C4673,7C4822,	25
			7C5065,7C5684,7C5811,7C5812,7C5813,7C5814,	25
6 CYL	63Z3631	63Z5381	7C6191,7C6192,7C6194,7C6548,7C6565,7C6619,	25
			7C6620,7C6621,7C6663,7C7253,7C7254,7C7255,7C7256,	25

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3306B			TRUCK ENGINE, U.S.	
6 CYL	63Z5604	63Z58230	9Y0137,9Y0477,9Y0479,9Y0540,9Y1292,9Y4713, 9Y4714,9Y4715,9Y4716,9Y4717,9Y4718,9Y4952	25
6 CYL	63Z8215	63Z8594	9Y4854,9Y4855,9Y4953,9Y5382	25
6 CYL	63Z12249	63Z12490	7E1334,7E1335,7E1336,7E1337,	25
3306			VEHICULAR ENGINE, U.S.	
6 CYL	63Z1	63Z1006	7C7252,7C9757,9Y0826,9Y7133,9Y7134,9Y7135, 9Y7137,9Y7138,9Y7139,9Y7568,9Y8080,9Y8101, 9Y8102,9Y8103,9Y8109,	25
6 CYL	63Z11913	63Z20461	9Y9226,9Y9227,9Y9228,9Y9229,9Y9230,9Y9231, 9Y9232,9Y9233,7E3373,7E3374,7E4303,7E4304, 7E4305,7E4306,7E4307,7E4308,7E4309,7E4310, 7E4788,7E5991,7E5992,7E5993,7E6046,7E7775, 7E9353,7E9354,7E9355,7E9356,7E9357,7E9358, 7E9359,7E9360,7E9361,7E9362,7E9363,7E9364, 7E9365,7E9367,7E9368,7E9369,7E9370,7E9371, 7E9372,7E9373,7E9374,7E9375,7E9376,7E9377, 7E9378,7E9379,7E9380,7E9381,7E9382,7E9383, 7E9384,7E9385,7E9386,7E9387,7E9388,7E9389, 7E9391,7E9396,7E9397,7E9399,7E9400,	25
6 CYL	63Z1	63Z1034352	4P6750,5P6751,4P6752,4P6753,4P6754,4P6755, 4P6756,4P6757,4P6758,4P6759,4P6760,4P6761, 4P6762,4P6763,4P6764,4P6765,4P6766,4P6767, 4P6768,4P6769,4P6772,4P6774,4P6780,4P6781, 4P6782,4P6783,4P6784,4P6785,4P6786, 6I0559,6I4562,6I4586,6I4587,1034352,	25
3306B			INDUSTRIAL ENGINE, U.S.	
6 CYL	64Z1	64Z7056	6C3731,7C2777,7C6195,7C6196,7C6663,1W3666, 1W3667,1W3668,1W3815,1W3823,1W3824,1W3829, 1W3836,1W4505,1W6795,1W9155,2W8242,4W0311, 4W4650,4W9876,7W2057,7W2058,7W6577,7W9507,	25
6 CYL	64Z16874	64Z20159	6C7381,1105781,1105782,1105783,1118018, 1118032,1135337,1135338,1181924,1191045,1192168, 1255867,1290351,1302237,1302238,1302239,1302240, 1302241,1302242,1312992,1312993,1312994,	25
3306			GENERATOR ENGINE, U.S.	
6 CYL	85Z1	85Z361	1W3818,1W3819,1W3833,1W3835,1W9156, 2W1738,2W1742,7W1395,	25
6 CYL	85Z2092	85Z3764	7C1196,7C7475,7C9312,7W6919,7W9159,7W9160, 7E8471,7E8472,7E8473,9Y8207,9Y8208,9Y8209, 9Y8210,9Y8211,1082861,1082862,1082864, 1262412,1262413,	25
3406				
6 CYL	7FB1	UP	TRUCK ENGINE, U.S.	28/29
6 CYL	2WB1	2WB10066	GENERATOR ENGINE, U.S.	28/29
6 CYL	4TB1	4TB2838	MARINE ENGINE	28/29
6 CYL	6TB1	6TB6476	INDUSTRIAL ENGINE, U.S.	28/29
6 CYL	8TC1	UP	TRUCK ENGINE, U.S.	28/29
6 CYL	4MG1	UP	TRUCK ENGINE, U.S.	28/29

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3406				
6 CYL	4RG318	4RG1175	GENERATOR ENGINE, U.S.	28/29
8 CYL	11N1	UP	VEHICULAR ENGINE, U.S.	28/29
G3406			NATURAL GAS ENGINE	
8 CYL	4FD1	4FD209	4P0873,7W2473,7W7194,	38
3406				
6 CYL	90U1	UP	INDUSTRIAL	28/29
6 CYL	91U1	UP	MARINE	28/29
6 CYL	92U1	UP	TRUCK	28/29
6 CYL	70V1	UP	VEHICLE	28/29
6 CYL	75Z1	UP	GEN. SET	28/29
3408				
8 CYL	87U1	UP	INDUSTRIAL	28/29
8 CYL	99U1	UP	MARINE	28/29
8 CYL	28V1	UP	TRUCK	28/29
8 CYL	78Z1	UP	GEN. SET	28/29
3408			NATURAL GAS ENGINE	
8 CYL	6NB1	6NB771	7E8371,7E8403,2W0948,4W5046,	38
3412				
12 CYL	7DB1	UP	2W5734,2W6742,	38
3412				
12 CYL	60M1	UP	MARINE	28/29
12 CYL	38S1	UP	INDUSTRIAL	28/29
12 CYL	87Z1	UP	GEN. SET	28/29
D13000				
6 CYL	28B1	28B504	INDUSTRIAL	30
6 CYL	29B1	UP	DIESEL ELECTRIC	30
6 CYL	30B1	30B69	MARINE	30
3508			NATURAL GAS ENGINE	
8 CYL	4WD1	UP	4P8301,4P8314,	39
8 CYL	2JF1	2JF315	4P0545,4P2455,9Y0759,9Y4109,1121789	39
3508			GENERATOR ENGINE, U.S.	
8 CYL	1ZF1	UP	7C8108,9Y4923	40
3508			VEHICULAR ENGINE, U.S.	
8 CYL	7YG1	UP	7E9077,7E9078,8I2758	40
3508			NATURAL GAS ENGINE	
8 CYL	9TG1	9TG33	4P8327,4P8355,4P8961	39
3508			LOCOMOTIVE, ENGINE, U.S.	
8 CYL	6TJ1	UP	4P8270	40
3508			VEHICULAR ENGINE, U.S.	
8 CYL	99W1	99W267	8N9602,2W0174	40
8 CYL	99W2690	99W2819	8N9602,2W0174	40
3508			INDUSTRIAL, ENGINE, U.S.	
8 CYL	95Y	95Y620	7N8704,8N5810	40
8 CYL	95Y640	95Y644	7N8704,4W0280	40

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3508			MARINE ENGINE, U.S.	
8 CYL	96Y619	96Y682	7N8702,7N8704	40
8 CYL	96Y675	96Y683	7N8702,2W8860	40
8 CYL	96Y1589		8N5811	40
3508			VEHICULAR ENGINE, U.S.	
8 CYL	97Y656		2W8861	40
3508			GENERATOR ENGINE, U.S.	
8 CYL	23Z1	23Z598	7N8701,7N8703	40
3508			GENERATOR ENGINE, U.S.	
8 CYL	23Z599	23Z1020	7N8701,7N8703	40
8 CYL	23Z954	23Z1333	7C1299,7C4594,2W8406	40
3508			INDUSTRIAL, ENGINE, U.S.	
8 CYL	68Z1	68Z676	1W4210,1W4214	40
8 CYL	68Z677		1W4210,1W4214	40
8 CYL	68Z691	68Z693	1W4210	40
8 CYL	68Z694	68Z697	1W4210,4W0281	40
3508			MARINE ENGINE, U.S.	
8 CYL	69Z255	69Z272	1W4213,1W4215	40
8 CYL	69Z273	69Z301	1W4213,2W8866	40
3508			GENERATOR ENGINE, U.S.	
8 CYL	70Z1	70Z598	1W4211,1W4212,2W8867	40
3512			INDUSTRIAL NATURAL GAS ENGINE, U.S.	
12 CYL	4KC93	4KC567	7E0006,7E7577,1W8061,9Y0762,9Y4110	39
3512			ENGINE, NATURAL GAS	
12 CYL	5JD1	UP	4P8302,4P8315	39
3512			GENERATOR ENGINE, U.S.	
12 CYL	3YF1	UP	7C8112	40
3512			GENERATOR ENGINE, NATURAL GAS	
12 CYL	7NJ1	7NJ108	4P8328,4P8332,4P8356,1024092,1127519,1180423, 1236823,1343539	39 39
3512			VEHICULAR ENGINE, U.S.	
12 CYL	4WJ1	4WJ643	7E9079,1126593,1215785	40
3512			LOCOMOTIVE ENGINE, U.S.	
12 CYL	2WK1	UP	4P5462	40
3512			INDUSTRIAL ENGINE, U.S.	
12 CYL	1LM1	1LM35	1086282,1086286	40
12 CYL	49Y355	49Y429	8N5805,8N8508	40
12 CYL	49Y430	49Y486	8N5805,8N5808,4W0282	40
3512			MARINE ENGINE, U.S.	
12 CYL	50Y441	50Y648	8N5802,8N5809,2W8862	40
3512			VEHICULAR ENGINE, U.S.	
12 CYL	51Y449	51Y716	8N5802,8N5803,2W8863,9Y6267	40
3512			GENERATOR ENGINE, U.S.	
12 CYL	24Z1	24Z1275	8N5806,8N5807	40
12 CYL	24Z1316	24Z1634	7C1300,7C5185,8N5806,2W8405	40

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3512			INDUSTRIAL ENGINE, U.S.	
12 CYL	65Z591	65Z602	1W4216,1W4220,4W0283,	40
3512			MARINE ENGINE, U.S.	
12 CYL	66Z1	66Z207	1W4217,1W4219,1W4221,2W8868	40
3512			GENERATOR ENGINE, U.S.	
12 CYL	67Z497	67Z535	1W4217,1W4218,2W8869	40
3512			VEHICULAR ENGINE, U.S.	
12 CYL	96Z1	UP	1W5220	40
3516			INDUSTRIAL ENGINE, U.S.	
16 CYL	3RC79	3RC221	7E0007,7E2369,7E6709,2W1450,9Y0598,9Y4112,	40
			9Y4113,9Y7033,	40
16 CYL	3RC1068		7E0007,7E2369,	40
3516			ENGINE, NATURAL GAS	
16 CYL	8LD1	UP	4P8303,4P8316	39
3516			GENERATOR ENGINE, U.S.	
16 CYL	4XF1	4XF511	7C8116,9Y4925	40
3516			LOCOMOTIVE ENGINE, U.S.	
16 CYL	9KF1	9KF53	9Y7015	40
3516			MARINE ENGINE, U.S.	
16 CYL	4MJ32	4MJ150	4P0176,4P0716,1019053	40
3516			777C OFF HIGHWAY TRUCK	
16 CYL	4XJ1019		1215777	40
3516			GENERATOR ENGINE, U.S.	
16 CYL	5SJ1	5SJ162	7E6916,1119372	40
3516			VEHICULAR ENGINE, U.S.	
16 CYL	2PK1	2PK951	7E6499,7E9080,1006339,1126594,1215789,1215793	40
3516			ENGINE, NATURAL GAS	
16 CYL	4EK1	4EK459	4P8329,4P8336,4P8346,4P8357,4P8359,1011495,	39
			1127518,1127520,1144360,1236822,	39
16 CYL	4EK495	4EK620	1176698,1261779	39
3516			GENERATOR ENGINE, U.S.	
16 CYL	25Z655	25Z684	8N0462,8N0463,2W8404,	40
16 CYL	25Z815	25Z2744	7C1301,7C5186,6I2939	40
3516			INDUSTRIAL ENGINE, U.S.	
16 CYL	27Z448	27Z654	8N0461,8N0462,8N0463,8N5812,4W0284	40
3516			VEHICULAR ENGINE, U.S.	
16 CYL	28Z597	28Z613	8N0465,2W8865	40
3516			MARINE ENGINE, U.S.	
16 CYL	29Z748	29Z818	8N0464,8N5813,2W8864,	40
16 CYL	29Z1276	29Z1277	8N5806,8N5807	40
3516			VEHICULAR ENGINE, U.S.	
16 CYL	54Z1	54Z486	2W3691,9Y8881,9Y9200,	40
3516			INDUSTRIAL ENGINE, U.S.	
16 CYL	71Z134	71Z242	1W4222,1W4223,1W4224,1W4226,4W0285	40

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3516			MARINE ENGINE, U.S.	
16 CYL	722317	722343	1W4225,1W4227,2W8870	40
3516			GENERATOR ENGINE, U.S.	
16 CYL	73Z1	73Z174	1W4223,1W4224,2W8871	40

VALVE TRAIN COMPONENTS

LINE	VALVE INTAKE	VALVE EXHAUST	SPRING OUTER	SPRING INNER	GUIDE INTAKE	GUIDE EXHAUST	SEAL, VALVE GUIDE
1	FP-6H3026	FP-4F0212	FP-5B6030	FP-1B9704	FP-4F6949	FP-4F6949	NOT USED
2	FP-6H3026	FP-4F0212	FP-5F3112	FP-5F3111	FP-4F6949	FP-4F6949	NOT USED
3	FP-6H3026	FP-4F0212	FP-5F3112	FP-5F3111	FP-4H0621	FP-4H0621	NOT USED
4	FP-9N0180	FP-9N0185	FP-9N3617	NOT USED	FP-6I2864	FP-6I2864	NOT USED
5	FP-9L7682	FP-9L7683	FP-9N3617	NOT USED	FP-6I2864	FP-6I2864	NOT USED
6	FP-7M7358	FP-9M4163	FP-9H9164	NOT USED	FP-4N3668	FP-4N3668	NOT USED
7	FP-5S6452	FP-5S6449	FP-7S7144	NOT USED	FP-2P1262	FP-2P1262	NOT USED
8	FP-2W2621	FP-8N0875	FP-7S7144	NOT USED	FP-2P1262	FP-2P1262	NOT USED
9	FP-8H1993	FP-8H1994	FP-4F5409	FP-4F5408	FP-2S0893	FP-1S6654	NOT USED
10	FP-8H1993	FP-8H1994	FP-9M5350	FP-9M5349	FP-7N2051*	FP-7N2051*	NOT USED
11	FP-1N4885	FP-7E7830	FP-2S4213	NOT USED	FP-6N2236	FP-6N2236	NOT USED
12	FP-1N4885	FP-7E7830	FP-3S3018	NOT USED	FP-6N2236	FP-6N2236	NOT USED
13	FP-7M7817	FP-8N3723	FP-7S6323	NOT USED	FP-4N3664*	FP-6N8847*	NOT USED
14	FP-7M7817	FP-8N3723	FP-7S6323	NOT USED	FP-4N3664*	FP-6N8847*	NOT USED
15	FP-8H1993	FP-8H1994	FP-4F5409	FP-4F5408	FP-2S0893	FP-1S6654	NOT USED
16	FP-8H1993	FP-8H1994	FP-4F5409	FP-4F5408	FP-2S0893	FP-1S6654	NOT USED
17	FP-1W8606	FP-2W3211	FP-9M5350	FP-9M5349	FP-2N9298*	FP-2N9299*	NOT USED
18	FP-1W8606	FP-2W3211	FP-9M5350	FP-9M5349	FP-2N9298*	FP-2N9299*	NOT USED
19	FP-1W8606	FP-1W1822	FP-9M5350	FP-9M5349	FP-2N9298*	FP-2N9299*	NOT USED
20	FP-5S6452	FP-8N0875	FP-7S7144	NOT USED	FP-2P1262	FP-2P1262	NOT USED
21	FP-2W2621	FP-5S6449	FP-7S7144	NOT USED	FP-2P1262	FP-2P1262	FP-8N7780
22	FP-2W2621	FP-2W2877	FP-7S7144	NOT USED	FP-7N4310	FP-7N4310	NOT USED
23	FP-2W2621	FP-2W2877	FP-7S7144	NOT USED	FP-7N4310	FP-7N4310	NOT USED
24	FP-7W7490	FP-7W7491	FP-7S7144	NOT USED	FP-9Y7895	FP-9Y7895	NOT USED
25	FP-2W2620	FP-8N9916	FP-7S7144	NOT USED	FP-2P1262	FP-2P1262	FP-8N7780
26	FP-8N9915	FP-6N9916	FP-7S7144	NOT USED	FP-2P1262	FP-2P1262	NOT USED
27	FP-2W2621	FP-2W2877	FP-7S7144	NOT USED	FP-4W9176	FP-7N4310	NOT USED
28	FP-2W2622	FP-1W3860	FP-4N5906	NOT USED	FP-4N2803	FP-4N2803	FP-6N7174
29	FP-1152368	FP-1152367	FP-4W2471	FP-4W2472	FP-4N2803	FP-4N2803	FP-6N7174
30	FP-8H1993	FP-8H1994	FP-4F5409	FP-4F5408	FP-2S0893	FP-1S6654	NOT USED
31	FP-6N9915	FP-7N0573	FP-7S7144	NOT USED	FP-2P1262	FP-2P1262	FP-8N7780
32	FP-6N9915	FP-7N0573	FP-7S7144	NOT USED	FP-2P1262	FP-2P1262	NOT USED
33	FP-8H1993	FP-8H1994	FP-9M5350	FP-9M5349	FP-7N2051*	FP-7N2051*	NOT USED
34	FP-2W2621	FP-8N0875	FP-7S7144	NOT USED	FP-2P1262	FP-2P1262	NOT USED
35	FP-2W2621	FP-8N0875	FP-7S7144	NOT USED	FP-2P1262	FP-2P1262	NOT USED
36	FP-1W1818	FP-1W1819	FP-9M5350	FP-9M5349	FP-1W1816*	FP-1W1816*	NOT USED
37	FP-7M7817	FP-8N3723	FP-9M5350	FP-9M5349	FP-4N3664*	FP-6N8847*	NOT USED
38	FP-4W5374	FP-2W2443	FP-4N5906	NOT USED	FP-7W1636	FP-7W1636	FP-6N7174
39	FP-1047184	FP-1047184	FP-7N1904	FP-7N1903	FP-9Y1847	FP-9Y1846	NOT USED
40	FP-7E4609	FP-7E4609	FP-7N1904	FP-7N1903	FP-9Y1847	FP-9Y1847	NOT USED
41	FP-9L7682	FP-9N5125	FP-9N5495	FP-9N5496	FP-6I2864	FP-6I2865	FP-7W9143

NOTES: *USED WITH SPACER P/N FP-3N1414.

VALVE TRAIN COMPONENTS

LINE	LOCK	ROTOCOIL	RETAINER	INSERT INTAKE STD.	INSERT EXHAUST STD.
1	FP-2A3291	NOT USED	FP-2A3292	NOT USED	NOT USED
2	FP-2A3291	NOT USED	FP-5F3109	NOT USED	NOT USED
3	FP-2A3291	NOT USED	FP-5F3109	NOT USED	NOT USED
4	FP-2A4429	FP-9N0187	NOT USED	FP-9N0181	FP-9N2837
5	FP-2A4429	NOT USED	FP-9L9425	FP-2N8943	FP-9N2837
6	FP-2A4429	FP-3S0461	NOT USED	FP-1W5321	FP-9M6495
7	FP-2A4429	FP-1031800	NOT USED	FP-5S7218	FP-1W5321
8	FP-2A4429	FP-1031800	NOT USED	FP-5S7218	FP-1W5321
9	FP-3B1143	FP-7F7666	NOT USED	FP-9M8745	FP-8M9810
10	FP-3B1143	FP-7N7639	NOT USED	FP-9M8745	FP-8M9810
11	FP-2A4429	FP-4N6761	NOT USED	FP-9M3205	FP-1W5283
12	FP-2A4429	FP-2S2813	NOT USED	FP-9M3205	FP-1W5283
13	FP-3B1143	FP-7N7639	NOT USED	FP-5H1464	FP-5H1463
14	FP-3B1143	FP-7N7639	NOT USED	FP-5S1757	FP-8M4014
15	FP-3B1143	FP-7N7639	NOT USED	FP-9M8745	FP-8M9810
16	FP-3B1143	FP-7N7639	NOT USED	FP-9M8745	FP-8M9810
17	FP-2A4429	FP-7N7639	NOT USED	FP-5S1757	FP-8M4014
18	FP-2A4429	FP-7N7639	NOT USED	FP-5S1757	FP-1S5738
19	FP-2A4429	FP-7N7639	FP-2N9297	FP-5S1757	FP-8M4018
20	FP-2A4429	FP-1031800	NOT USED	FP-7N4448	FP-1W5321
21	FP-2A4429	FP-1W5300	NOT USED	FP-7N4448	FP-1W5321
22	FP-2A4429	FP-1031800	NOT USED	FP-5S7218	FP-7N1649
23	FP-2A4429	FP-1031800	NOT USED	FP-7N4448	FP-7N1649
24	FP-2A4429	FP-1031800	NOT USED	FP-7N4448	FP-7N1649
25	FP-2A4429	FP-1W5300	NOT USED	FP-7N4448	FP-2W4837
26	FP-2A4429	FP-1031800	NOT USED	FP-7N4448	FP-2W4837
27	FP-2A4429	FP-1031800	NOT USED	FP-5S7218	FP-7N1649
28	FP-2A4429	FP-6N7175	NOT USED	FP-4N5893	FP-1W5283
29	FP-2A4429	FP-4W2474	NOT USED	FP-4N5893	FP-1W5283
30	FP-3B1143	FP-7F7666	NOT USED	FP-9M8745	FP-8M9810
31	FP-2A4429	FP-1W5300	NOT USED	FP-7N4448	FP-2W4837
32	FP-2A4429	FP-1W5300	NOT USED	FP-7N4448	FP-7N8855
33	FP-3B1143	FP-7N7639	NOT USED	FP-9M8745	FP-8M9810
34	FP-2A4429	FP-5S5874	NOT USED	FP-7N4448	FP-1W5321
35	FP-2A4429	FP-1W5300	NOT USED	FP-7N4448	FP-1W5321
36	FP-2A4429	FP-7N7639	NOT USED	FP-9M8745	FP-8M9810
37	FP-3B1143	FP-7N7639	FP-3H5867 INT/ FP-3B1142 EX	FP-5S1757	FP-8M4014
38	FP-2A4429	FP-6N7175	NOT USED	FP-4N5893	FP-4W4325
39	FP-2A4429	FP-7N7964	FP-2W2662	FP-7W0028	FP-7W0028
40	FP-2A4429	FP-7N7964	FP-2W2662	FP-7E5862	FP-1W1801
41	FP-2A4429	NOT USED	FP-9N5497	FP-2N8943	FP-9N2837

SECTION 3

ENGINE BEARINGS

Consists of: Rod Bearings, Main Bearings, Cam Bearings,
Pin Bushings and Thrust Washers.

Machine Section.....	87
Engine Section.....	99
Line Numbers.....	113
Oversize O.D. Bearings.....	121
Main Bearing Illustration, 3208.....	122

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D3						
3204	6N1	6N885	45V1	45V17159	4N0169,4N0303	20
3204	6N886	UP	45V17160	UP	7N3800,7N5139	20
3204	79U1	79U4688	45V1	45V17159	4N0169,4N0303	20
3204	79U4689	UP	45V17160	UP	7N3800,7N5139	20
3204	82U1	82U930	45V1	45V17159	4N0169,4N0303	20
3204	82U931	UP	45V17160	UP	7N3800,7N5139	20
3204	83U1	83U777	45V1	45V17159	4N0169,4N0303	20
3204	83U778	UP	45V17160	UP	7N3800,7N5139	20
D4						
D315	6U1	6U12781				19
D315	7U1	7U44307				18
D4C						
D330	24A1	24A1274				17
D330	39A1	UP				17
D330	40A1	UP				17
D330	54A1	54A124				17
D330	55A1	55A312				17
D330	69A1	69A873				17
D4D						
D330	67A1	67A1575				17
D330	78A1	UP				17
D330	85A1	UP				17
D330	86A1	UP				17
D330	88A1	UP				17
D330	91A1	91A1518				17
D330	22C1	22C655				17
D330	18J1	UP				17
D330	20J1	UP				17
D330	58J1	UP				17
D330	59J1	UP				17
D332	97F1	UP				17
D330	44H1	UP				17
D330	47H1	UP				17
D330	49J1	UP				17
D330	59J1	UP				17
D330	60J1	UP				17
D330	61J1	UP				17
D330	65J1	UP				17
D330	66J1	UP				17
D330	82J1	UP				17
D330	83J1	UP				17
D330	84J1	UP				17
D330	69K1	UP				17
D330	7R1	UP				17
3304	27X1	UP	78P1, 7Z1	UP		4
3304	28X1	UP	78P1, 7Z1	UP		4
3304	29X1	UP	78P1, 7Z1	UP		4
3304	69X1	UP	48V1, 12Z1	UP		4A

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D4D						
3304	70X1	UP	48V1, 12Z1	UP		4A
3304	71X1	UP	48V1, 12Z1	UP		4A
3304	72X1	UP	48V1, 12Z1	UP		4A
D5						
D333	98A1	98A592				3
D333	51H1	UP				23
D333	52H1	UP				23
D333	81H1	UP				23
D333	82H1	UP				23
D333	83H1	UP				23
D333	84H1	UP				23
D333	21J1	UP				23
D333	37J1	37J461				23
D333C	54J1	UP				23
D333C	62J1	UP				3
D333C	63J1	UP				3
D333C	67J1	67J845				3
D333C	68J1	68J2461				3
D333C	93J1	UP				3
D333C	95J1	UP				3
D333C	96J1	UP				3
D333C	97J1	UP				3
D333C	98J1	UP				3
D333C	6R1	UP				3
D333C	12R1	UP				3
D5B						
3306	22X1	UP	3N1 & 8Z1	UP		3
3306	23X1	UP	3N1 & 8Z1	UP		3
3306	24X1	UP	3N1 & 8Z1	UP		3
3306	25X1	UP	3N1 & 8Z1	UP		3
3306	43X1	UP	49V1 & 13Z1	UP		3
3306	44X1	UP	49V1 & 13Z1	UP		3
3306	45X1	UP	49V1 & 13Z1	UP		3
D5C						
D333C	46J1	UP				3
D333C	47J1	UP				3
D333C	69J1	69J2538				3
D333C	99J1	UP				3
D333C	10K1	UP				3
D333C	26K1	26K1144				3
D333C	17R1	UP				3
D333C	69U1	UP				3
D6B						
D315	56A1	UP				18
D315	57A1	UP				18
D315	71A1	UP				18
D315	73A1	UP				18

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D6B						
D333C	37A1	UP				3
D333C	44A1	UP				3
D333C	37H1	37H748				3
D333	38H1	38H751				23
D6C						
D333	41A1	41A395				23
D333C	74A1	UP				3
D333C	76A1	UP				3
D333	82A1	UP				23
D333	83A1	UP				23
D333	96A1	UP				23
D333C	90B1	90B1095				3
D333C	46J1	UP				3
D333C	47J1	UP				3
D333C	55J1	UP				3
D333C	56J1	UP				3
D333C	69J1	UP				3
D333C	99J1	UP				3
D333C	10K1	UP				3
D333C	26K1	UP				3
D333C	17R1	UP				3
D333C	69U1	UP				3
D6D						
3306	3X1	UP	3N1 & 8Z1	UP		3
3306	4X1	UP	3N1 & 8Z1	UP		3
3306	5X1	UP	3N1 & 8Z1	UP		3
3306	6X1	UP	3N1 & 8Z1	UP		3
D7						
D8800	3T1	UP				26
D8800	4T1	4T9999				26
D8800	6T1	6T1054				26
D7C-D						
D339	17A1	17A19422				26
D7E						
D339	47A1	UP				26
D339	48A1	UP				26
D339	79A1	UP				26
D339	95A1	95A319				26
D7F						
D333CT	91E1	UP				3
D333CT	92E1	92E1050				3
D333CT	92E1051	UP				3
D333CT	61G1	UP				3
D333CT	7M1	7M9999				3
D333CT	93N1	93N882				3
D333CT	93N883	UP				3
D333CT	94N1	94N2245				3

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D7F						
D333CT	94N2246	UP				3
D7G						
3306	91V1	UP	3N, 8Z, 62Z			3
3306	92V1	UP	3N, 8Z, 62Z			3
D8						
D13000	13A1	13A3703				5
D342C/T	22A1	22A1246				5A
D342C/T	22A1247	UP				5B
D342C/T	68A1	68A1208				5A
D342C/T	68A1209	UP				5B
D8D-G						
D342C	15A1	15A3354				5A
D8E-F						
D342C	14A1	14A9692				5A
D8H						
D342C/T	35A1	35A777				5A
D342C/T	36A1	36A4390				5A
D342C/T	36A4649	UP				5B
D342C/T	46A1	46A9886				5A
D342C/T	46A12885	UP				5B
D342C/T	52A1	52A84				5A
D342C/T	68A1	68A1208				5A
D342C/T	68A1209	UP				5B
D342C/T	1H1	1H9999				5
D342C/T	8R1	8R9999				5
D342C/T	2U1	2U23537				5
D8K						
D342	76V1	76V504	17S1	UP		5B
D342	77V1	77V5005	17S1	UP		5B
D8L						
3408	53Y1	UP	48W13002	UP		10A
D9G						
D353	66A1	66A5134				13
D353	66A5135	66A8504				13
D353	66A9505	UP				13
D353	90J1	90J85				13
D353	90J86	UP				13
D353	91J1	91J85				13
D353	91J86	UP				13
D353	29N1	UP				13
D353	30N1	UP				13
D9H						
D353	90V1	UP	97U1	UP		13
D353	97V1	UP				13
D353	98V1	UP	97U3095	UP		13

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
D9L						
3412	14Y1	UP	73W1274	UP		12
D10						
D348	84W1	UP				8
D348	76X1	UP				8
12						
D333	80C1	80C1008				23
D333	80C1009	UP				23
D318	94C1	94C361				21
D318	71D1	71D472				21
D318	8T1	8T21904				28
12E						
D333	99E1	UP				23
D333	12F1	UP				23
D333	21F1	UP				23
12F						
D333C	73G1	UP				3
D333	59H1	UP				23
D333C	89H1	UP				3
D333C	13K1	UP				3
D333	17K1	UP				23
D333	33K1	UP				23
12G						
3306	61M1	UP				23
14						
D318	64C1	64C801				21
14B						
D318	78E1	78E127				21
14C						
D333	35F1	UP				23
14D						
D333	96F1	UP				23
14E						
D333	72G1	UP				23
D333	12K1	UP				23
D333	99G1	UP				23
14G						
3306	96U1	UP	3N1, 8Z1	UP		3
16						
D343	49G1	UP				6
16G						
3406	93U1	93U1178	70V1	70V4104		10
3406	93U1179	UP	70V4128	70V466210		10
3406	93U1179	UP	70V4663	70V8615		10

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
112						
D318	81C1	81C359				21
D330	68E1	UP				17
112E						
D330	91G1	UP				17
112F						
D330	46D1	UP				17
D330	82F1	UP				17
D330	80J1	UP				17
D333C	89J1	UP				3
120						
D333	89G1	UP				23
D333	60H1	UP				23
D333C	14K1	14K2263				3
D333C	35K1	35K514				3
D333C	10R1	UP				3
D333C	22R1	UP				3
D333C	90R1	UP				3
D333C	13U1	UP				3
120G						
3304	82V1	UP	78P1	UP		4
3304	87V1	UP	78P1, 7Z1	UP		4
3304	11W1	UP	78P1, 7Z1	UP		4
130G						
3304	74V1	UP	78P1, 7Z1	UP		4
3304	12W1	UP	78P1, 7Z1	UP		4
140						
D333C	11R1	UP				3
D333C	24R1	UP				3
D333C	14U1	UP				3
140G						
3306	72V1	UP	3N1, 8Z1	UP		3
3306	81V1	UP	3N1	UP		3
215						
3304	96L1	UP	48V1	UP		4A
3304	76U1	UP	48V, 12Z			4A
3204	14Z1	UP	10X1	10X1858		20
225						
3208	61X1	UP	79V1	UP		20
235						
3306	32K1	32K1300	3N, 8Z			3
3306	32K1301	32K2678	3N, 8Z			3
3306	64R1	UP	49V, 13Z			3
3306	62X1	62X288	3N, 8Z			3

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
245						
3406	95V1	UP	70V1	70V4167		10B
3406	95V471	UP	70V4168	70V4182		10
3406	95V471	UP	70V4183	70V4207		10
3406	95V471	UP	70V4208	70V5677		10
3406	95V471	UP	70V5678	70V8615		10
3406	95V471	UP	70V8616	UP		10
3406	82X1	UP	70V1	70V4167		10B
3406	82X1	UP	70V4168	70V4182		10
3406	82X1	UP	70V4183	70V4207		10
3406	82X1	UP	70V4208	70V5677		10
3406	82X1	UP	70V5678	70V8615		10
3406	82X1	UP	70V8616	UP		10
561B						
D333	62A1	UP				23
561C						
D333	85H	UP				23
D333C	92J1	UP				3
561D						
3306	54X1	UP	3N1, 8Z1	UP		3
571A						
D339	64A1	UP				26
571F						
3306	95N1	UP	3N1	UP		3
571G						
3306	16W1	UP	3N1	UP		3
572C-D						
D339	21A1	21A331				28
572E						
D339	65A1	UP				26
572F						
3306	96N1	UP	3N1	UP		3
572G						
3306	40U1	UP	3N1, 8Z1	UP		3
583C-E						
D342C	16A1	16A199				5A
D342C	16A200	16A300				5
583H						
D342C	38A1	38A78				5A
D342C	61A1	61A107				5A
D342C	61A199	UP				5B
583K						
D342T	78V1	78V534	17S1	17S2853		5
D342T	78V1	UP	17S2854	UP		5

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
594						
D353	98V1	UP	97U3095	UP		13
D353	62H1	UP				13
D353	66H84	UP				13
613						
3208	71M2549	UP	79V1	UP		2
613B						
3208	38W5539	UP	79V5381	UP		2A
619C						
D340	61F1	UP				24
D340	62F1	UP				24
621B						
3406	45P1	45P2711	70V1	70V4167		10B
3406	45P1	45P2711	70V4168	70V4182		10
3406	45P1	45P2711	70V4183	70V4207		10
3406	45P1	45P2711	70V4208	70V10345		10
3406	45P2712	UP	70V10346	UP		10
623B						
3406	46P1	46P1601	70V1	70V4167		10B
3406	46P1	46P1601	70V4168	70V4182		10
3406	46P1	46P1601	70V4183	70V4207		10
3406	46P1	46P1601	70V4208	70V10345		10
3406	46P1602	UP	70V10346	UP		10
627						
D333C	54K1	UP				3
D333C	68M1	UP				3
627B						
3306	14S1	UP	3N1, 8Z1	UP		3
3306	15S1	UP	3N1, 8Z1	UP		3
630A						
D343	51F1	51F782				6
630B						
D343	14G1	UP				6
631A						
D343	51F1	51F782				6
651						
D346	33G1	33G336				7A
D346	44M1	UP				7A
651B						
D346	67K1	UP				7
657						
D343	19G1	UP				6
D343	53K1	UP				6
D343	47M1	UP				6
D346A	31G1	31G578				7A
D346A	46M1	46M177				7A

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
657B						
D346	68K1	UP				7
660						
D346	77F1	UP				7A
D346	90F1	90F175				7A
660B						
D346	58K1	UP				7
666						
D343	20G1	UP				6
D346	64H1	UP				7A
D346	66K1	UP				7
768						
D343	79S1	79S118				6
769						
D343	99F1	99F1120				6
769B						
D343	99F1121	UP				6
769C						
3408	2X1	2X349	48W4929	48W12523		11
3408	2X1	2X349	48W12524	48W17687		11
772B						
3412	64W1	64W167	73W1	73W2036		12
3412	64W1	64W167	73W2037	UP		12
773						
D346	63G1	UP				7
773B						
3412	63W1	63W1220	73W1	73W2036		12
3412	63W1	63W1220	73W2037	UP		12
776						
D348	14H1	UP				8
777						
D348	84A1	UP				8
814						
3306	90P1	UP	3N1, 62Z1	UP		3
3306	14R1	UP	49V1	UP		3
815						
3306	91P1	UP	3N1	UP		3
3306	15R1	UP	49V1	UP		3
816						
3306	57U1	UP	3N1	UP		3
824B						
1693	36H1	UP				6
1693	43N1	43N423				6

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
824C						
3406	85X1	UP	70V5389	70V8615		10
3406	85X1	UP	70V8616	UP		10
825B						
D343	43N424	43N1246				6
825C						
3406	86X1	86X645	70V5389	70V8615		10
3406	86X1	86X645	70V8616	UP		10
826B						
D343	43N424	43N1246				6
D343	58U1	58U250				6
826C						
3406	87X1	87X367	70V5389	70V8615		10
3406	87X1	87X367	70V8616	UP		10
830M						
1693	41E1	UP				6
834						
1693	43E1	UP				6
834B						
3408	92Z1	UP	48W15340	UP		11
835						
1693	44N1	UP				6
920						
3304	47J1	UP	48V1	UP		4
3304	62K1	UP	78P1	UP		4
922B						
D330	94A1	UP				17
D330	97A1	97A1235				17
D330C	74J1	74J1980				4
D330C	88J1	UP				4
930						
D330C	79J1	UP				4
3304	41K1	UP	78P1	UP		4
941						
3304	75H1	UP				4
941B						
3304	70H1	UP				4A
3304	75H	UP				4
3304	80H1	UP				4
944						
3304	77J1	UP				4
3304	87J1	UP				4
944A						
D330	43A1	UP				17
D330	70A1	UP				17

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
950						
D330	90A1	UP				17
D330	99A1	99A491				17
D330	58H1	58H520				17
D330	15J1	UP				17
3304	43J1	UP				4A
3304	73J1	73J3956				4
3304	81J1	UP				4
3304	31K1	UP				4
3304	49U1	UP				4
951						
D330C	63K1	63K987				4
D330	89A1	UP				17
D330	92A1	UP				17
951B						
D330	79H1	UP				17
D330C	32F1	UP				4
D330C	72J1	72J1952				4
D330C	86J1	UP				4
951C						
D330C	19H1	UP				4
955C-E						
D315	12A1	12A8418				18
955F						
D330	45A1	45A1276				17
955H						
D330	60A1	UP				17
D330	72A1	72A3240				17
D330	77A1	UP				17
D330	93A1	93A992				17
955K						
D330	48H1	UP				17
D330	61H1	UP				17
D330	31J1	31J792				17
3304	64J1	64J5182				4
3304	71J1	71J3197				4
3304	85J1	85J4871				4
955L						
3304	64J5183	UP				4
3304	71J4558	UP				4
3304	85J4672	UP				4
3304	13X1	UP				4
966A						
D333	33A1	UP				23
966B						
D333	75A1	UP				23
D333	57H1	UP				23

MACHINE & ENGINE	MACHINE SERIAL NUMBER		ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT #	LINE
	FROM:	TO:	FROM:	TO:		
966C						
D333C	78G1	78G1000				3
D333C	42J1	UP				3
D333C	76J1	76J12666				3
D330C	30K1	30K2971				3
977K						
D318	20A1	20A4222				21
D333	46H1	UP				23
D333C	76H1	UP				23
D333C	48J1	48J1059				3
D333C	70J1	70J2222				3
D333C	11K1	UP				3
3306	14X1	UP				3
977L						
D333C	11K1	UP				3
980						
D330C	89P1	UP				3
980C						
3406	63X1	63X5062	70V4683	70V4724		10
3406	63X1	63X5062	70V4725	70V8615		10
3406	63X1	63X5062	70V8616	UP		10
983						
D343	38K1	UP				6
983C						
3406	58X1	UP	70V5101	70V8615		10
3406	58X1	UP	70V8616	UP		10
988						
1693	87A1	UP				6
988B						
3408	50W1	50W6040	48W1	48W3244		11
3408	50W1	50W6040	48W3187	48W7684		11
3408	50W1	50W6040	48W7685	48W9075		11
3408	50W1	50W6040	48W9076	UP		11
992B						
D348	25K1	UP				8
992C						
3412	42X1	UP	73W1	UP		12
3412	49Z1	UP	73W3403	UP		12

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
D315				
4CYL	9S5001	9S9257	MARINE ENGINE	19
4CYL	9S9258	9S13357	MARINE ENGINE	18
4CYL	4V1	4V717	DIESEL ELECTRIC SET	19
4CYL	4V718	4V1472	DIESEL ELECTRIC SET	18
4CYL	5V1	5V283	MARINE ENGINE	19
4CYL	5V284	5V540	MARINE ENGINE	18
D315G				
4CYL	48B1	48B756	INDUSTRIAL ENGINE	18
4CYL	52B1	52B372	INDUSTRIAL ENGINE	18
D318				
4CYL	3V5001	3V5644	DIESEL ELECTRIC SET	28
4CYL	3V5645	3V6166	DIESEL ELECTRIC SET	21
D318			INDUSTRIAL ENGINE	
4CYL	5V5001	5V12416	5F5460,5F5585,5F5605,6F1010,6F4215,7F6875	28
4CYL	5V12417	5V15002	INDUSTRIAL ENGINE	21
4CYL	5V15003	UP	INDUSTRIAL ENGINE	21
4CYL	5V17500	5V19626	INDUSTRIAL ENGINE	21
4CYL	6V1	6V405	MARINE ENGINE	28
4CYL	6V406	6V681	MARINE ENGINE	21
D318G				
4CYL	45B1	45B1494	INDUSTRIAL ENGINE	21
4CYL	53B1	53B498	INDUSTRIAL ENGINE	21
D330A				
4CYL	56B1	UP	INDUSTRIAL ENGINE	17
4CYL	57B1	UP	MARINE ENGINE	17
4CYL	85B1	UP	INDUSTRIAL ENGINE	17
4CYL	86B1	UP	MARINE ENGINE	17
D330B				
4CYL	81B1	UP	INDUSTRIAL ENGINE	17
4CYL	82B1	UP	MARINE ENGINE	17
4CYL	99B1	UP	MARINE ENGINE	17
D330C				
4CYL	2B1	2B4363	INDUSTRIAL ENGINE	4
4CYL	4B1	4B6031	INDUSTRIAL ENGINE	4
4CYL	5B1	5B1196	MARINE ENGINE	4
D333A			INDUSTRIAL ENGINE	
6CYL	58B1	58B4684	4L5363,4L5434	23
6CYL	59B1	59B989	MARINE ENGINE	23
6CYL	87B1	UP	INDUSTRIAL ENGINE	23
6CYL	88B1	UP	MARINE ENGINE	23
D333B				
6CYL	79B1	79B2631	INDUSTRIAL ENGINE	23
6CYL	80B1	80B716	MARINE ENGINE	23
G333B				
6CYL	84B1	UP	NATURAL GAS ENGINE	23

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
D333C				
6CYL	9A5201	9A5300	INDUSTRIAL ENGINE 8L1912	3
6CYL	23C1	23C739	INDUSTRIAL ENGINE	3
6CYL	66D1	66D8890	INDUSTRIAL ENGINE	3
6CYL	67D1	67D1102	MARINE ENGINE	3
6CYL	70R1	UP	INDUSTRIAL ENGINE	3
G333C				
6CYL	68D1	UP	NATURAL GAS ENGINE	3
D334				
6CYL	92B1	UP	INDUSTRIAL ENGINE	23
6CYL	93B1	UP	MARINE ENGINE	23
D339			INDUSTRIAL ENGINE	
4CYL	34B1	34B1664	1L9770	26
D342				
6CYL	17S1	17S5087	VEHICULAR ENGINE	5B
D342C				
6CYL	5A8403	5A8462	VEHICULAR ENGINE	5B
6CYL	31B1	31B3783	INDUSTRIAL ENGINE	5A
6CYL	31B3784	UP	INDUSTRIAL ENGINE	5C
6CYL	31B3985	UP	INDUSTRIAL ENGINE	5B
6CYL	32B1	32B2223	MARINE ENGINE	5A
6CYL	32B2224	32B2268	MARINE ENGINE	5C
6CYL	32B2269	UP	MARINE ENGINE	5B
6CYL	49B1	49B795	INDUSTRIAL ENGINE	5A
6CYL	49B796	49B1090	INDUSTRIAL ENGINE	5C
6CYL	49B1091	UP	INDUSTRIAL ENGINE	5B
6CYL	50B1	50B913	MARINE ENGINE	5A
6CYL	50B914	50B1024	MARINE ENGINE	5C
6CYL	50B1025	50BUP	MARINE ENGINE	5B
G342C				
6CYL	71B1	71B536	NATURAL GAS ENGINE	5A
6CYL	71B537	71B749	NATURAL GAS ENGINE	5C
6CYL	71B750	UP	NATURAL GAS ENGINE	5B
D343				
6CYL	33B1	33B4283	MARINE ENGINE	6
6CYL	62B1	UP	INDUSTRIAL ENGINE	6
D346				
8CYL	39J1	UP	INDUSTRIAL ENGINE	7
8CYL	40J1	UP	MARINE ENGINE	7
8CYL	98N1	UP	VEHICULAR ENGINE	7
D348				
12CYL	36J1	36J184	INDUSTRIAL ENGINE	8A
12CYL	36J1		INDUSTRIAL ENGINE	8
12CYL	98S1	UP	VEHICULAR ENGINE	8
12CYL	38J1	UP	MARINE ENGINE	8
12CYL	38J1	38J137	MARINE ENGINE	8A
12CYL	57K1	UP	VEHICULAR ENGINE	8

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
D349				
16CYL	61P1	UP	INDUSTRIAL ENGINE	9
16CYL	62P1	UP	MARINE ENGINE	9
16CYL	32R1	UP	VEHICULAR ENGINE	9
D353				
6CYL	97U1	UP	VEHICULAR ENGINE	13
D353D				
6CYL	46B1	46B808	INDUSTRIAL ENGINE	13A
6CYL	46B809	46B2275	INDUSTRIAL ENGINE	13B
6CYL	46B2276	UP	INDUSTRIAL ENGINE	13
6CYL	47B1	47B408	MARINE ENGINE	13A
6CYL	47B409	47B1447	MARINE ENGINE	13B
6CYL	47B1448	UP	MARINE ENGINE	13
D353E				
6CYL	77B1	UP	INDUSTRIAL ENGINE	13
D379				
8CYL	68B1	UP	INDUSTRIAL ENGINE	16
8CYL	69B1	UP	MARINE ENGINE	16
D398				
12CYL	66B1	UP	INDUSTRIAL ENGINE	14
12CYL	75B1	UP	INDUSTRIAL ENGINE	14
12CYL	67B1	UP	MARINE ENGINE	14
D399				
16CYL	35B1	UP	INDUSTRIAL ENGINE	15
16CYL	36Z1	UP	GENERATOR SET	15
16CYL	91B1	UP	MARINE ENGINE	15
G399				
16CYL	49C	UP	NATURAL GAS GENERATOR	15
1140			TRUCK ENGINE	
8CYL	36B1	36B2012	9L6811,9L6815,9L6819,9L6823,9L7141, 9L7225,9L7913,9L8203,9L8347,9L8351, 9L9471,9L9475,	1 1 1
8CYL	36B2013	UP / FOR	9L6811,9L6815,9L6819,9L6823, CYL. BLOCKS 9L9446 9L7141,9L7225,9L7913,9L7917, 9L6553 AND 9N0130 9L7225	1A 1A 1A 1A
8CYL	36B2013	UP / FOR	9L6811,9L6815,9L6819,9L6823, CYL. BLOCK 9N1255	1B 1B
8CYL	36B2013	UP / FOR	9L6811,9L6815,9L6819,9L6823, CYL. BLOCK 9N3120	1C 1C
1145			TRUCK ENGINE	
8CYL	97B1	97B6575	9L7142,9L7295,9L7297,9L8200,9L8348, 9L8352,9L9462,9L9472,9L9476,9L9922,	1 1
8CYL	97B6576	UP / FOR	9L6333,9L7142,9L7297,9L7914,9L7918 CYL. BLOCKS 9L9446, 9L7925,9L8200,9L9919,9L9922	1A 1A 1A
8CYL	97B6576	UP / FOR	9L6333,9L6812,9L6816,9L6820, CYL. BLOCK 9N1255 9L6824,9L6882,9L7925,9L8200	1B 1B

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
1145			TRUCK ENGINE	
8CYL	97B6576	UP / FOR	9L6333,9L6812,9L6816,9L6820,	1C
	CYL. BLOCK 9N3120		9L6824,9L6882,9L7925,9L8200	1C
1150			TRUCK ENGINE	
8CYL	96B1	96B7589	9L7143,9L7296,9L7298,9L8199,9L8349	1
			9L8353,9L9463,9L9473,9L9477,9L9480,	1
			9L9920	1
8CYL	96B7590	UP / FOR	9L6338,9L6345,9L6813,9L6817,9L6821,	1A
	CYL. BLOCKS 9L9446, 9L6553		9L6825,9L6881,9L7143,9L7298,9L7915,	1A
	AND 9N0130		9L7927,9L8199,9L9920,9L9923,	1A
8CYL	97B6576	UP / FOR	9L6333,9L6812,9L6816,9L6820,	1B
	CYL. BLOCK 9N1255		9L6824,9L6882,9L7925,9L8200	1B
8CYL	97B6576	UP / FOR	9L6333,9L6812,9L6816,9L6820,	1C
	CYL. BLOCK 9N3120		9L6824,9L6882,9L7925,9L8200	1C
1160			TRUCK ENGINE	
8CYL	95B1	95B14667	9L7144,9L7632,9L7633,9L7654,	1
			9L7731,9L8350,9L8354,9L8404,	1
			9L9464,9L9474,9L9481,9L9921	1
8CYL	95B14688	UP / FOR	9L6171,9L6471,9L6814,9L6818,	1A
	CYL. BLOCKS 9L9446, 9L6553		9L6822,9L6826,9L6883,9L6991,	1A
	AND 9N0130		9L7632,9L7633,9L7654,9L7731,	1A
			9L7916,9L7920,9L7926,9L8404	1A
8CYL	95B14668	UP / FOR	9L6171,9L6471,9L6814,9L6818,	1B
	CYL. BLOCK 9N1255		9L6822,9L6826,9L6883,9L6991,	1B
			9L6992,9L7731,9L7926,9L8404	1B
8CYL	95B14668	UP / FOR	9L6171,9L6471,9L6814,9L6818,	1C
	CYL. BLOCK 9N3120		9L6822,9L6826,9L6883,9L6991,	1C
			9L6992,9L7731,9L7926,9L8404	1C
1670				
4CYL	6A6	6A6053	TRUCK ENGINE	17
4CYL	61B1	UP	TRUCK ENGINE	17
1673				
6CYL	70B1	70B2299	TRUCK ENGINE	23
6CYL	74B1	UP	TRUCK ENGINE	23
6CYL	78B1	UP	TRUCK ENGINE	23
6CYL	83B1	UP	TRUCK ENGINE	23
6CYL	1L1	1L494	TRUCK ENGINE	23
6CYL	76R1	76R370	TRUCK ENGINE	3
1674				
6CYL	94B1	UP	TRUCK ENGINE	23
1676				
8CYL	54B1	UP	TRUCK ENGINE	6A
8CYL	60B1	UP	MARINE ENGINE	6A
1693				
6CYL	65B1	UP	TRUCK ENGINE	6

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3145				
8CYL	96M1	96M2481	INDUSTRIAL ENGINE	1
8CYL	96M2520			1
8CYL	96M1963	96M2937		1
8CYL	96M2482			1A
8CYL	96M2519			1A
8CYL	96M2521			1A
8CYL	96M2566	UP		1A
8CYL	65P1	UP	ELECTRIC SET	1
3150				
8CYL	97M1	97M2779	INDUSTRIAL ENGINE	1
8CYL	97M2780	UP	INDUSTRIAL ENGINE	1A
8CYL	66P1	UP	ELECTRIC SET	1
3160				
8CYL	98M1	98M2992	INDUSTRIAL ENGINE	1
8CYL	98M2993	UP	INDUSTRIAL ENGINE	1A
8CYL	67P1	UP	MARINE ENGINE	1
8CYL	68P1	68P1276	MARINE ENGINE	1
8CYL	68P1277	UP	MARINE ENGINE	1A
3204			VEHICULAR ENGINE	
4CYL	45V1	45V17159	4N0169,4N0303	20
4CYL	45V17160	UP	7N3800,7N5139	20
4CYL	45V39562	45V99999	7C0934,7N6429,2W7487	20A
4CYL	7EB1	7EB99999	INDUSTRIAL ENGINE	20A
4CYL	6DC1	6DC385	INDUSTRIAL ENGINE	20A
4CYL	3PC1	3PC447	INDUSTRIAL ENGINE	20A
4CYL	2BT1	2BT99999	INDUSTRIAL ENGINE	20A
3208				
8CYL	30A5100	UP	GENERATOR ENGINE	2A
3208T			GENERATOR SET	
8CYL	5YF1	5YF457	9L8065,9Y3135	2D
8CYL	5YF458	UP	7E0036	2D
8CYL	5YF1	UP	4P2649,4P3027,9Y0842,9Y1346,9Y2229, 9Y3136,1042666,1061496,1077956,1077957	2A 2A
3208				
8CYL	90N1	90N37284	INDUSTRIAL ENGINE	2A
8CYL	90N37285	9N52892	INDUSTRIAL ENGINE	2A
8CYL	9N52893	UP	INDUSTRIAL ENGINE	2A
3208			TRUCK ENGINE	
8CYL	40S1	40S15611	FOR CYL BLOCK 9N130 AND SHORT BLOCKS 9N1250 AND 9N2139	2 2
8CYL	40S1	40S15611	FOR CYL BLOCK 9N1255 WITH OIL PASSAGE IN # 1 MAIN	2B 2B
8CYL	40S15612	UP	FOR CYL BLOCK 9N3120 NON-GROOVED FRONT MAIN	2A 2A
8CYL	40S15612	UP	FOR CYL BLOCK 9N3120 WITH GROOVED FRONT MAIN	2B 2B

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3208			TRUCK ENGINE	
8CYL	40S15612	UP	FOR CYL BLOCK 9N3763 AND	2A
			FOR SHORT BLOCK 9N5190	2A
			NON-GROOVED FRONT MAIN	2A
3208			MARINE ENGINE	
8CYL	75V1	75V1446	FOR CYL BLOCK 9N130,9L6553	2C
			AND SHORT BLOCKS 6N3029 AND 9N2139	2C
8CYL	75V1447	UP	FOR CYL BLOCK 9N3120 AND	2
			SHORT BLOCKS 9N1250,9N2139	2
8CYL	75V4002	UP	FOR CYL BLOCK 9N3761 AND	2C
			SHORT BLOCKS 9N2139 & 9N5190	2C
			WITH GROOVED FRONT MAIN	2C
8CYL	75V2305	75V7370	FOR CYL BLOCK 9N3763 AND	2A
			FOR SHORT BLOCK 9N5190	2A
			NON-GROOVED FRONT MAIN	2A
3208			VEHICULAR ENGINE	
8CYL	79V1	79V1407		2C
8CYL	79V1408	79V2200	FOR CYL BLOCK 9N3120 AND	2
			SHORT BLOCKS 9N1250,9N2139	2
8CYL	79V1408	79V2200	FOR CYL BLOCK 9N1255 WITH	2B
			OIL PASSAGE IN # 1 MAIN	2B
8CYL	79V2201	UP	FOR CYL BLOCKS 9N3120,9N3551,	2A
			AND 9N3761 WITH	2A
			NON-GROOVED FRONT MAIN	2A
8CYL	79V2201	UP	FOR CYL BLOCKS 9N3120,9N3551	2B
			AND 9N3761 WITH	2B
			GROOVED FRONT MAIN	2B
8CYL	79V1408	79V3454	FOR CYL BLOCK 9N3120 AND	2D
			SHORT BLOCKS 9N1250,9N2139	2D
			WITH NON-GROOVED FRONT MAIN	2D
8CYL	79V1408	79V3593	FOR CYL BLOCK 9N3761 AND	2A
			SHORT BLOCK 9N5190 WITH	2A
			NON-GROOVED FRONT MAIN	2A
3208			TRUCK ENGINE	
8CYL	32Y1	32Y68440	9N5151,9N5155,9N5166,9N5247,	2A
			9N6134,9N6135,9N6352,9N6353,	2A
			9N9354,9N9938,9N6639	2A
8CYL	32Y8309	32Y59137	9N6348,9N6349,9N6350,9N9351,	2D
			9N6637	2D
8CYL	32Y8328	UP	9N5185	2A
8CYL	32Y8329	UP	9N5185	2D
8CYL	32Y8375	32Y9999	9N5146,9N5140	14
8CYL	32Y68441	32Y99999	ALSO SHORT BLOCKS 9N5669	2A
			AND 9N5190	2A
8CYL	1Z1	1Z2482	MARINE ENGINE	2A
8CYL	1Z2483	UP	MARINE ENGINE	2D
3208			TRUCK ENGINE	
8CYL	2Z1	2Z1984	SHORT BLOCKS 1W1862,1W1863,	2A
			2W1864,2W1865,2W7941,	2A

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3208			TRUCK ENGINE	
8CYL	2Z1985	2Z3018	SHORT BLOCKS 1W1862,1W1863, 2W1864,2W1865,2W7941,	2A
				2A
8CYL	2Z3018	UP	SHORT BLOCKS 2W1863,2W1864, 2W7941	2D
				2D
8CYL	2Z3074	UP	SHORT BLOCK 2W1865	2A
8CYL	2Z40745	2Z65350	7C5283,7C5639,7C5641,7C5644,7C8806, 7C8808,7C8813,7C8814,7C8824,7E3649, 1W6715,2W1864,2W1865,2W7941,7W2907	2A
				2A
8C/L	2Z50809	2Z66527	7E2400,7E5212,7E5791,7E5994,7E9563, 4P7877,4P7878,4P7879,4P8516	2D
				2D
8CYL	3Z1	3Z2544	7C6372,7C7635,8N4046,8N7094, 8N7095,8N7172,1W8699,2W9125	2A
				2A
8CYL	3Z5599	3Z8116	7E3765,7E3766,9N6482,2W8219, 2W8612,4W0860,4W9003,7W7069,9Y6437	2A
				2A
8CYL	3Z10094		7E5868	2A
8CYL	3Z10241		4P1724	2A
8CYL	3Z10562		4P7256	2D
3304				
4CYL	2B4364	2B5271	INDUSTRIAL 3N3205	4
4CYL	2B5272	2B7238	INDUSTRIAL 4N4205	4A
4CYL	2B7239	UP	INDUSTRIAL 4N4205	4A
4CYL	2B11013	2B12345	INDUSTRIAL 4N4205	4A
4CYL	2B11014	2B17811	INDUSTRIAL 4N4205	4A
4CYL	2B12346	UP	INDUSTRIAL 4N4205	4A
4CYL	2B17737	2B17812	INDUSTRIAL 4N4205	4A
4CYL	4B6032	4B14448	INDUSTRIAL 3N3207,4N4207	4
4CYL	4B14449	4B18934	INDUSTRIAL 3N3207,4N4207	4
4CYL	4B18935	UP	INDUSTRIAL 3N3207,4N4207	4B
4CYL	4B25438	UP	INDUSTRIAL 3N3207,4N4207	4B
4CYL	4B27058	UP	INDUSTRIAL 3N3207,4N4207	4B
4CYL	5B1197	5B2437	MARINE 3N3208,4N4208	4
4CYL	5B2438	UP	MARINE 3N3208,4N4208	4B
4CYL	10E300	UP	INDUSTRIAL ENGINE	4B
4CYL	13E300	UP	MARINE ENGINE	4B
4CYL	9HK1	UP	GENERATOR SET	4B
4CYL	78P	UP	VEHICULAR ENGINE	4
4CYL	48V	SERIES	VEHICULAR ENGINE	4A
4CYL	37Y1	UP	NATURAL GAS ENGINE	4A
4CYL	83Z1	UP	GENERATOR SET	4B
3306				
6CYL	4WB1	UP	INDUSTRIAL ENGINE	3B
6CYL	23C740	23C1555	INDUSTRIAL ENGINE	3A
6CYL	23C1556	UP	INDUSTRIAL ENGINE	3A
6CYL	66D8891	66D12369	INDUSTRIAL ENGINE	3
6CYL	66D19890	UP	INDUSTRIAL ENGINE	3
6CYL	66D26832	66D49918	INDUSTRIAL ENGINE	3B
6CYL	66D49919	UP	INDUSTRIAL ENGINE	3B
6CYL	66D22100	UP	INDUSTRIAL ENGINE	3
6CYL	67D1103	67D1374	MARINE ENGINE	3

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3306				
6CYL	67D2422	UP	MARINE ENGINE	3
6CYL	2AJ1	UP	GENERATOR SET	3B
6CYL	8JJ1	UP	GENERATOR SET	3B
6CYL	7RJ1	UP	TRUCK ENGINE	3B
6CYL	3N1	UP	VEHICULAR ENGINE	3
6CYL	76R371	76R1294	TRUCK ENGINE	3B
6CYL	76R2779	UP	TRUCK (TURBO & TURBO AFTERCOOLED)	3B
6CYL	48V1	UP	VEHICULAR ENGINE	3
6CYL	7Y1	UP	NATURAL GAS ENGINE	3A
6CYL	63Z1	UP	TRUCK ENGINE	3B
6CYL	64Z	UP	INDUSTRIAL ENGINE	3B
3406B				
6CYL	7FB1	7FB99999	TRUCK ENGINE	10
6CYL	4TB1	4TB3044	MARINE ENGINE	10
6CYL	4TB3045	UP	MARINE ENGINE	10A
6CYL	6TB1	6TB8309	INDUSTRIAL ENGINE	10
6CYL	6TB8310	UP	INDUSTRIAL ENGINE	10A
6CYL	6TB9166	UP	INDUSTRIAL ENGINE	10A
6CYL	6TB13880	UP	INDUSTRIAL ENGINE	10A
3406B			GENERATOR SET	
6CYL	2WB1	2WB10066	7N3516,7E0306	10
6CYL	2WB1067	UP	7N3516,7E0306	10A
6CYL	2WB1067	UP	7E5989	10
6CYL	8TC1	8TC1412	TRUCK ENGINE	10
6CYL	8TC1413	UP	TRUCK ENGINE	10
6CYL	4MG1	4MG3599	TRUCK ENGINE	10
6CYL	4MG3600	4MG99999	TRUCK ENGINE	10
6CYL	5KJ1	5KJ7538	TRUCK ENGINE	10
6CYL	5KJ7539	5KJ7585	7N3516,9Y1914	10A
6CYL	5KJ7539	UP	7E1028	10
3406C			TRUCK ENGINE	
6CYL	5KJ7800	UP	7E0491,7N3516,9Y1914,7E1027	10A
3406E				
6CYL	5EK1	UP	TRUCK ENGINE	10A
3406B			GENERATOR SET	
6CYL	4RG1	4RG1174	7E0306,7E5989,7N3516	10
6CYL	4RG1175	UP	7E0306,7N3516	10A
3406B			TRUCK ENGINE	
6CYL	5YG1	UP	7E0491	10A
3406B			TRUCK ENGINE	
6CYL	3ZJ1	3ZJ2847	7E8657,7E8701	10
6CYL	3ZJ2848	UP	7E1027,7E8657,7E8701,1021713	10A
3406C			TRUCK ENGINE	
6CYL	3ZJ16182	3ZJ60112	7E1027,7E8657,7E8701,1007831,	10A
6CYL	3ZJ60113	UP	1021713,1021713,1118608	10A
6CYL	3ZJ60113	UP	7E1027	10

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
FROM:	TO:			
3406C			TRUCK ENGINE	
6CYL	4CK1	4CK845	7E0491,7E8657,7E8701	10A
6CYL	4CK846	UP	7E0491,7E8657,7E8701	10A
3406E			3406E ENGINE	
6CYL	2EK1	2EK512	7E8657,7E8701	10
6CYL	2EK513	UP	7E0491,7E8657.	10A
3406E			TRUCK ENGINE	
6CYL	5EK1821	UP	4P5403,1072198,1177059,1337538,1352851,1365204	10A
3406B			GENERATOR SET	
6CYL	4JK1	UP	7N3516,1304614	10A
G3406			NATURAL GAS ENGINE	
6CYL	1RK1	UP	1055426	10A
3406C				
6CYL	4PM1	UP	7E0306,7N3516	10A
6CYL	8PN1	UP	1184594	10A
6CYL	3ER1	UP	1088865,1304614	10A
3406E			3406E ENGINE	
6CYL	8BR1	UP	1177059,1337538,1361582	10A
3406C				
6CYL	4ZR1	UP	7N3516,1304614	10A
6CYL	8FS1	UP	7N3516,1304614	10A
6CYL	1LS1	UP	1304614	10A
6CYL	1SS1	UP	7N3516,4P1900	10A
6CYL	90U1	90U451	INDUSTRIAL ENGINE	10B
6CYL	90U452	90U4105	INDUSTRIAL ENGINE	10
6CYL	90U4106	90U10559	INDUSTRIAL ENGINE	10
6CYL	90U10580	UP	INDUSTRIAL ENGINE	10
6CYL	90U19731	90U19897	INDUSTRIAL ENGINE	10
6CYL	90U19898	UP	INDUSTRIAL ENGINE	10A
6CYL	91U1	91U122	MARINE ENGINE	10B
6CYL	91U123	91U127	MARINE ENGINE	10B
6CYL	91U128	UP	MARINE ENGINE	10
6CYL	91U1124	UP	MARINE ENGINE	10
6CYL	92U1	92U2700	TRUCK ENGINE	10B
6CYL	92U2701	92U2729	TRUCK ENGINE	10B
6CYL	92U2731	92U2953	TRUCK ENGINE	10B
6CYL	92U2730	92U2954	TRUCK ENGINE	10
6CYL	92U2955	92U7243	TRUCK ENGINE	10
6CYL	92U7244	92U7386	TRUCK ENGINE	10
6CYL	92U7387	UP	TRUCK ENGINE	10
6CYL	92U14043	92U29990	TRUCK ENGINE	10
6CYL	92U299991	92U99999	TRUCK ENGINE	10
6CYL	70V1	70V1413	VEHICULAR ENGINE	10B
6CYL	70V1414	70V4207	VEHICULAR ENGINE	10
6CYL	70V4208	70V8784	VEHICULAR ENGINE	10
6CYL	70V8785	UP	VEHICULAR ENGINE	10
6CYL	70V15296	70V22476	VEHICULAR ENGINE	10
6CYL	70V22477	UP	VEHICULAR ENGINE	10

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3406				
6CYL	75Z1	UP	GENERATOR ENGINE	10
3408				
8CYL	77M7000	77M7500	REPOWERED ENGINE	11A
8CYL	9XM1	UP	INDUSTRIAL ENGINE	11A
G3408	6NB1	UP	NATURAL GAS ENGINE	11A
8CYL	6RJ1	UP	NATURAL GAS ENGINE	11A
8CYL	3WR1	UP	NATURAL GAS ENGINE	11A
8CYL	8YR1	UP	NATURAL GAS ENGINE	11A
3408B				
8CYL	8RG1	UP	MARINE ENGINE	11A
3408C				
8CYL	9ER1	UP	3408C ENGINE	11A
3408C				
8CYL	1TS1	UP	MARINE ENGINE	11A
3408E				
8CYL	7PR1	UP	INDUSTRIAL ENGINE	11A
3408				
8CYL	67U1	67U2791	INDUSTRIAL ENGINE	11
8CYL	67U2792	UP	INDUSTRIAL ENGINE	11
8CYL	67U4868	UP	INDUSTRIAL ENGINE	11A
8CYL	67U11092	67U15104	INDUSTRIAL ENGINE	11A
8CYL	67U15105	UP	INDUSTRIAL ENGINE	11A
3408				
8CYL	99U1	99U4603	MARINE ENGINE	11
8CYL	99U4604	UP	MARINE ENGINE	11
8CYL	28V1	UP	TRUCK ENGINE	11
8CYL	28V3355	28V4542	TRUCK ENGINE	11A
8CYL	28V4750	UP	TRUCK ENGINE	11
8CYL	48W4929	48W12523	WHEEL TRACTOR	11
8CYL	48W12524	48W17687	WHEEL TRACTOR	11
8CYL	78Z1	78Z1143	GENERATOR ENGINE	11
8CYL	78Z1144	UP	GENERATOR ENGINE	11
8CYL	78Z4443	UP	GENERATOR ENGINE	11A
3412				
12CYL	7DB1	UP	NATURAL GAS ENGINE	12A
12CYL	9XF1	UP	INDUSTRIAL ENGINE PEEK	12A
12CYL	2WJ1	UP	GENERATOR SET	12A
12CYL	3JK1	UP	MARINE ENGINE	12A
12CYL	3NK1	UP	NATURAL GAS ENGINE	12A
12CYL	7BL1	UP	HIGH PERFORMANCE MARINE	12A
12CYL	60M1	60M1177	MARINE ENGINE	12
12CYL	60M1178	60M1951	MARINE ENGINE	12A
12CYL	60M2020	60M2088	MARINE ENGINE	12A
12CYL	6ZM1	UP	NATURAL GAS ENGINE	12A

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3412C				
12CYL	8AR1	UP	3412C ENGINE	12A
12CYL	9BR1	UP	MARINE AUX GENERATOR SET	12A
G3412				
12CYL	9RR1	UP	NATURAL GAS ENGINE	12A
3412E				
12CYL	4CR1	UP	3412E ENGINE	12A
3412				
12CYL	38S1	38S1426	INDUSTRIAL ENGINE	12
12CYL	38S1427		INDUSTRIAL ENGINE	12
12CYL	38S13236	UP	INDUSTRIAL ENGINE	12A
12CYL	38S13304	UP	INDUSTRIAL ENGINE	12A
12CYL	81Z1	81Z4999	GENERATOR SET	12A
12CYL	81Z5000	81Z14395	GENERATOR SET	12A
12CYL	81Z14396	UP	GENERATOR SET	12A
3412			GENERATOR SET	
12CYL	87Z1	UP		12
G3508			STD. ENGINE, ELECTRONIC IGNITION	
8CYL	4WD1	UP	1011171,1153500,1153501,1153502,	29
8CYL	4WD1	UP	1153503	29
8CYL	4WD1	UP	7C4839,7C7349,7C8136,1N2932,	29A
8CYL	4WD1	UP	7N8706,2W0291,2W8240,2W8241,	29A
8CYL	4WD1	UP	4P7262,4P8319,4P9891,9Y6289,	29A
8CYL	4WD1	UP	9Y6421,1011243.	29A
G3508			NATURAL GAS ENGINE	
8CYL	2JF1	UP	1011171	29
8CYL	2JF1	UP	7E4660,4P8319,2W8240,1011229	29A
3508			GENERATOR SET	
8CYL	1ZF1	UP	7C7349,7C8136,7E4660,9Y6421	29A
G3508			NATURAL GAS ENGINE	
8CYL	9TG1	UP	1011171,1153500,1153501,1153502,	29
8CYL	9TG1	UP	1153503	29
8CYL	9TG1	UP	7C4839,7C7349,7C8136,1N2932,	29A
8CYL	9TG1	UP	7N8706,2W0291,2W8240,2W8241,	29A
8CYL	9TG1	UP	4P7262,4P8319,4P9891,9Y6289,	29A
8CYL	9TG1	UP	9Y6421,1011243.	29A
3508			LOCOMOTIVE ENGINE	
8CYL	6TJ1	UP	1011171,1153500,1153501,1153502,	29
8CYL	6TJ1	UP	1153503	29
8CYL	6TJ1	UP	7C4839,7C7349,7C8136,1N2932,	29A
8CYL	6TJ1	UP	7N8706,2W0291,2W8240,2W8241,	29A
8CYL	6TJ1	UP	4P7262,4P8319,4P9891,9Y6289,	29A
8CYL	6TJ1	UP	9Y6421,1011243.	29A
3508			GENERATOR SET	
8CYL	3LS1	UP	1011171	29
3508			MARINE ENGINE	
8CYL	3PS1	UP	1011171	29

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3508			MARINE ENGINE	
8CYL	3TS1	UP	1011171	29
3508			MARINE ENGINE	
8CYL	2BM1	UP	1011171	29B
3508			MARINE ENGINE	
8CYL	3DM1	UP	1011171	29B
3508B			GENERATOR SET	
8CYL	4GM1	UP	1011171	29
3508B			MARINE ENGINE	
8CYL	7SM1	UP	1011171	29B
3508			STD. ENGINE,ELECTRONIC IGNITION	
8CYL	5XM1	UP	1011171	29
3508B			GENERATOR SET	
8CYL	6PN1	UP	1011171	29B
3508				
8CYL	23Z1	23Z1022	GENERATOR SET	29A
8CYL	23Z1023	UP	7C4839,7C7349,7E4660,1N2932, 4P7262,2W8240,2W8241	29A
				29A
8CYL	23Z3489	UP	1011171	29
8CYL	23Z3489	UP	4P7262,2W8240	29A
3508				
8CYL	68Z1	68Z693	INDUSTRIAL ENGINE	29A
3508				
8CYL	69Z1	69Z274	MARINE ENGINE	29A
3508				
8CYL	70Z1	70Z587	GENERATOR SET	29A
8CYL	70Z757	UP	1011171	29
8CYL	70Z757	UP	4P7262,2W8240	29A
3508				
8CYL	95Y1	95Y643	INDUSTRIAL ENGINE	29A
8CYL	95Y644	UP		29A
3508				
8CYL	96Y1	96Y682	MARINE ENGINE	29A
8CYL	96Y683	UP		29A
3508				
8CYL	97Y1	UP	VEHICULAR ENGINE	29A
G3512				
12CYL	4KC1	UP	NATURAL GAS ENGINE	30A
12CYL	5JD1	UP		30
G3512				
12CYL	7NJ1	UP	INDUSTRIAL, ELECTRONIC IGNITION	30
3512				
12CYL	2WK1	UP	LOCOMOTIVE ENGINE	30

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3512B				
12CYL	8EM1	UP	MARINE ENGINE	30B
12CYL	7HM1	UP	MARINE ENGINE	30B
12CYL	1LM1	UP	INDUSTRIAL ENGINE	30
12CYL	6PM1	UP	GENERATOR SET W/ EUI	30
12CYL	8RM1	UP	GENERATOR SET	30B
12CYL	4TN1	UP	MARINE ENGINE	30B
12CYL	6WN1	UP	GENERATOR SET	30B
12CYL	3RS1	UP	MARINE ENGINE W/ EUI	30
12CYL	3MS1	UP	GENERATOR SET W/ EUI	30
12CYL	3WS1	UP	MARINE ENGINE W/ EUI	30
3512				
12CYL	3YF1	UP	GENERATOR SET W/ EUI	30A
12CYL	49Y1	49Y485	INDUSTRIAL ENGINE	30A
12CYL	49Y486	UP	INDUSTRIAL ENGINE	30A
12CYL	49Y519	UP	LOCOMOTIVE ENGINE	30
12CYL	50Y647	UP	MARINE ENGINE	30A
12CYL	51Y513	UP	VEHICULAR ENGINE	30
12CYL	51Y541	UP	VEHICULAR ENGINE	30
12CYL	24Z1	24Z1316	GENERATOR SET	30A
12CYL	24Z1317	UP	GENERATOR SET	30A
12CYL	24Z4366	UP	GENERATOR SET	30
12CYL	65Z1	65Z601	INDUSTRIAL ENGINE	30A
12CYL	66Z1	66Z189	MARINE ENGINE	30A
G3516				
16CYL	3RC1	UP	NATURAL GAS ENGINE	31A
3516				
16CYL	8LD1	UP	3516 ENGINE	31
16CYL	4XF1	UP	GENERATOR SET	31
16CYL	9KF1	UP	LOCOMOTIVE ENGINE	31
16CYL	4MJ1	UP	MARINE ENGINE	31
16CYL	4MJ150	UP	MARINE ENGINE	31
16CYL	7KM1	UP	GENERATOR SET W/ EUI	31
G3516				
16CYL	4EK1	UP	NATURAL GAS ENGINE	31
3516B				
16CYL	6HN1	UP	GENERATOR SET	31B
16CYL	7RN1	UP	GENERATOR SET	31B
16CYL	8CN1	UP	3516B ENGINE	31B
16CYL	8KN1	UP	MARINE ENGINE	31B
16CYL	9AN1	UP	3516B ENGINE	31B
16CYL	3NS1	UP	GENERATOR SET W/ EUI	31
16CYL	3SS1	UP	MARINE ENGINE	31
16CYL	5SJ1	UP	GENERATOR SET	31
16CYL	50Y1	50Y648	MARINE ENGINE	31A
16CYL	51Y1	UP	VEHICULAR ENGINE	31A
16CYL	25Z1	25Z683	GENERATOR SET	31A
16CYL	25Z684	UP	GENERATOR SET	31A
16CYL	27Z1	27Z649	INDUSTRIAL ENGINE	31A

ENGINE	ENGINE SERIAL NUMBER		ENGINE ARRANGEMENT # (OR DESCRIPTION)	LINE
	FROM:	TO:		
3516B				
16CYL	27Z650	UP	INDUSTRIAL ENGINE	31A
16CYL	28Z1	28Z612	VEHICULAR ENGINE	31A
16CYL	28Z613	UP	VEHICULAR ENGINE	31A
16CYL	29Z1	UP	MARINE ENGINE	31A
16CYL	29Z818	UP	MARINE ENGINE	31A
16CYL	67Z1	67Z534	GENERATOR SET	31A
16CYL	71Z1	71Z241	INDUSTRIAL ENGINE	31A
16CYL	72Z1	UP	MARINE ENGINE	31A
16CYL	73Z1	73Z173	GENERATOR SET	31A
D7700				
4CYL	9J3001	9J3398	INDUSTRIAL ENGINE	26
4CYL	4H6001	4H6299	INDUSTRIAL ENGINE	26
D8800				
4CYL	4H3269	4H4000	INDUSTRIAL ENGINE	26
4CYL	9J2001	9J3000	INDUSTRIAL ENGINE	26
4CYL	9J6001	9J6424	INDUSTRIAL ENGINE	26
4CYL	1N8000	1N8925	MARINE ENGINE	26
4CYL	2S1	2S5000	INDUSTRIAL ENGINE	26
4CYL	6S5001	6S9504	INDUSTRIAL ENGINE	26
4CYL	3V1	3V541	DIESEL ELECTRIC SET	26
D13000				
6CYL	28B1	UP	INDUSTRIAL ENGINE	5
6CYL	29B1	UP	DIESEL ELECTRIC SET	5
6CYL	30B1	30B89	MARINE ENGINE	5
6CYL	4H2001	4H2500	INDUSTRIAL ENGINE	5
6CYL	9J1	9J1000	INDUSTRIAL ENGINE	5
6CYL	9J7501	9J8000	MARINE ENGINE	5
6CYL	1N1001	1N2000	INDUSTRIAL ENGINE	5
6CYL	1N9001	1N9999	INDUSTRIAL ENGINE	5
6CYL	4S1	4S1000	MARINE ENGINE	5
6CYL	4S1001	4S9999	MARINE ENGINE	5
6CYL	4S10000	4S14102	INDUSTRIAL ENGINE	5
6CYL	7S1	7S1395	MARINE ENGINE	5
6CYL	2V5001	2V6107	DIESEL ELECTRIC SET	5

SECTION 3-ENGINE BEARINGS

LINE	ROD BRG STD	ROD BRG 0.010	ROD BRG 0.020	ROD BRG 0.025	ROD BRG 0.030	ROD BRG 0.040	ROD BRG 0.050	MAIN BRG STD	MAIN BRG 0.010
1	(8) FP-8N5923	(8) FP-8N5924	(8) FP-8N5925		(8) FP-8N5923-030	(8) FP-8N5923-040	(8) FP-8N5926	(4) FP-4W8092 (1) FP-8N9084	(4) FP-8N9022 (1) FP-8N9083
1A	(8) FP-8N5923	(8) FP-8N5924	(8) FP-8N5925		(8) FP-8N5923-030	(8) FP-8N5923-040	(8) FP-8N5926	(4) FP-4W8092 (1) FP-4W8091	(4) FP-8N9022 (1) FP-8N9085
1B	(8) FP-8N5923	(8) FP-8N5924	(8) FP-8N5925		(8) FP-8N5923-030	(8) FP-8N5923-040	(8) FP-8N5926	(3) FP-4W8092 (1) FP-4W8091 (1) FP-8N8929	(3) FP-8N9022 (1) FP-8N9085 (1) FP-8N8926
1C	(8) FP-8N5923	(8) FP-8N5924	(8) FP-8N5925		(8) FP-8N5923-030	(8) FP-8N5923-040	(8) FP-8N5926	(3) FP-4W8092 (1) FP-4W8091 (1) FP-4W8093	(3) FP-8N9022 (1) FP-8N9085 (1) FP-8N8976
2	#(8) FP-7E7894	#(8) FP-8N5920	#(8) FP-8N5921		(8) FP-7E7894-030	(8) FP-7E7894-040	#(8) FP-8N5922	(4) FP-4W8092 (1) FP-4W8091	(4) FP-8N9022 (1) FP-8N9085
2A	#(8) FP-7E7894	#(8) FP-8N5920	#(8) FP-8N5921		(8) FP-7E7894-030	(8) FP-7E7894-040		(1) FP-4W8093 (3) FP-4W8092 (1) FP-4W8091	(1) FP-8N8976 (3) FP-8N9022 (1) FP-8N9085
2B	*(8) FP-8N5923	*(8) FP-8N5924	*(8) FP-8N5925		(8) FP-8N5923-030	(8) FP-8N5923-040	*(8) FP-8N5926	(1) FP-8N8929 (3) FP-4W8092 (1) FP-4W8091	(1) FP-8N8926 (3) FP-8N9022 (1) FP-8N9085
2C	*(8) FP-8N5923	*(8) FP-8N5924	*(8) FP-8N5925		(8) FP-8N5923-030	(8) FP-8N5923-040	*(8) FP-8N5926	(4) FP-4W8092 (1) FP-4W8091	(4) FP-8N9022 (1) FP-8N9085
2D	#(8) FP-7E7894 * .955" WIDE # 1.010" WIDE	#(8) FP-8N5920	#(8) FP-8N5921		(8) FP-7E7894-030	(8) FP-7E7894-040	#(8) FP-8N5922 * .955" WIDE # 1.010" WIDE	(1) FP-4W8093 (3) FP-4W8092 (1) FP-4W8091 SEE ILLUS. ON PAGE 122	(1) FP-8N8976 (3) FP-8N9022 (1) FP-8N9085 SEE ILLUS. ON PAGE 122
3	(6) FP-4W5739	(6) FP-8N8221	(6) FP-8N8222			(6) FP-8N8223		(7) FP-4W5738	(7) FP-8N8225
3A	(6) FP-4W5739	(6) FP-8N8221	(6) FP-8N8222		(6) FP-8N8223	FP-4W5739-040		(7) FP-4W5738	(7) FP-8N8225
3B	(6) FP-4W5739	(6) FP-8N8221	(6) FP-8N8222		(6) FP-8N8223	FP-4W5739-040		(7) FP-4W5738	(7) FP-8N8225
4	(4) FP-4W5739	(4) FP-8N8221	(4) FP-8N8222		(4) FP-8N8223	FP-4W5739-040		(5) FP-4W5738	(5) FP-8N8225
4A	(4) FP-4W5739	(4) FP-8N8221	(4) FP-8N8222		(4) FP-8N8223	FP-4W5739-040		(5) FP-4W5738	(5) FP-8N8225
4B	(4) FP-4W5739	(4) FP-8N8221	(4) FP-8N8222		(4) FP-8N8223	FP-4W5739-040		(5) FP-4W5738	(5) FP-8N8225

SECTION 3-ENGINE BEARINGS

LINE	MAIN BRG 0.020	MAIN BRG 0.025	MAIN BRG 0.030	MAIN BRG 0.040	MAIN BRG 0.050	MAIN BRG 0.060	PIN BUSHING	CAM BEARING	THRUST WASHERS
1	(4) FP-8N9023 (1) FP-8N9062		(4) FP-4W8092-030 (1) FP-8N9084-030	(4) FP-4W8092-040 (1) FP-8N9084-040	(4) FP-8N9020 (1) FP-8N9081		(8) FP-8N0701	(5) FP-8N5246	NOT USED
1A	(4) FP-8N9023 (1) FP-8N9064		(4) FP-4W8092-030 (1) FP-4W8091-030	(4) FP-4W8092-040 (1) FP-4W8091-040	(4) FP-8N9020 (1) FP-8N9086		(8) FP-8N0701	(5) FP-8N5246	NOT USED
1B	(1) FP-8N8931 (3) FP-8N9023 (1) FP-8N9064		(3) FP-4W8092-030 (1) FP-4W8091-030 (1) FP-4W8093-030	(4) FP-4W8092-040 (1) FP-4W8091-040 (1) FP-4W8093-040	(1) FP-8N8932 (3) FP-8N9020 (1) FP-8N9086		(8) FP-8N0701	(5) FP-8N5246	NOT USED
1C	(1) FP-8N8972 (3) FP-8N9023 (1) FP-8N9064		(1) FP-4W8091-030 (3) FP-4W8092-030 (1) FP-4W8093-030	(1) FP-4W8091-040 (4) FP-4W8092-040 (1) FP-4W8093-040	(1) FP-8N8974 (3) FP-8N9020 (1) FP-8N9086		(8) FP-8N0701	(5) FP-8N5246	NOT USED
2	(4) FP-8N9023 (1) FP-8N9064		(4) FP-4W8092-030 (1) FP-4W8091-030	(4) FP-4W8092-040 (1) FP-4W8091-040	(4) FP-8N9020 (1) FP-8N9086		#(8) FP-8N0701	(5) FP-8N5246	NOT USED
2A	(1) FP-8N8972 (3) FP-8N9023 (1) FP-8N9064		(1) FP-4W8091-030 (3) FP-4W8092-030 (1) FP-4W8091-030	(1) FP-4W8091-040 (4) FP-4W8092-040 (1) FP-4W8091-040	(1) FP-8N8974 (3) FP-8N9020 (1) FP-8N9086		* (8) FP-8N5082	(5) FP-8N5246	NOT USED
2B	(1) FP-8N8931 (3) FP-8N9023 (1) FP-8N9064		(3) FP-4W8092-030 (3) FP-4W8092-030 (1) FP-4W8091-030	(4) FP-4W8092-040 (4) FP-4W8092-040 (1) FP-4W8091-040	(1) FP-8N8932 (3) FP-8N9020 (1) FP-8N9086		#(8) FP-8N0701	(5) FP-8N5246	NOT USED
2C	(4) FP-8N9023 (1) FP-8N9064		(4) FP-4W8092-030 (1) FP-4W8091-030	(4) FP-4W8092-040 (1) FP-4W8091-040	(4) FP-8N9020 (1) FP-8N9086		#(8) FP-8N0701	(5) FP-8N5246	NOT USED
2D	(1) FP-8N8972 (3) FP-8N9023 (1) FP-8N9084 SEE ILLUS. ON PAGE 122		(1) FP-4W8093-030 (3) FP-4W8092-030 (1) FP-4W8091-030	(1) FP-4W8093-040 (4) FP-4W8092-040 (1) FP-4W8091-040	(1) FP-8N8932 (3) FP-8N9020 (1) FP-8N9086 SEE ILLUS. ON PAGE 122		#(8) FP-8N0701 # STRAIGHT * TAPERED	(5) FP-8N5246	NOT USED
3	(7) FP-8N8226		(7) FP-8N8227	4W5738-040			(6) FP-8N0702 1.5" PIN, STRT. (6) FP-8N0703 1.7" PIN, STRT.	(4) FP-7M4046 (1) FP-8M5477	(2) FP-8N8940 (.185") OR (2) FP-8S3037 (.232") OR (2) FP-1003652 (.214")
3A	(7) FP-8N8226		(7) FP-8N8227	4W5738-040			(6) FP-8N0702 1.5" PIN, STRT. OR (6) FP-8N1985 1.5" PIN, TAPER	(2) FP-7M4046 (1) FP-8M5477	(2) FP-8N8940 (.185") OR (2) FP-1003652 (.214")
3B	(7) FP-8N8226		(7) FP-8N8227	4W5738-040			(6) FP-8N0703 1.7" PIN, STRT. OR (6) FP-8N1849 1.7" PIN, TAPER	(2) FP-7M4046 (1) FP-8M5477	(2) FP-8N8940 (.185") OR (2) FP-1003652 (.214")
4	(5) FP-8N8226		(5) FP-8N8227	4W5738-040			(4) FP-8N0702 1.5" PIN, STRT. OR (4) FP-8N0703 1.7" PIN, STRT.	(2) FP-7M4046 (1) FP-8M5477	(2) FP-8N8940 (.185") OR (2) FP-8S3037 (.232") OR (2) FP-1003652 (.214")
4A	(5) FP-8N8226		(5) FP-8N8227	4W5738-040			(4) FP-8N0702 1.5" PIN, STRT. OR (4) FP-8N1985 1.5" PIN, TAPER	(2) FP-7M4046 (1) FP-8M5477	(2) FP-8N8940 (.185") OR (2) FP-1003652 (.214")
4B	(5) FP-8N8226		(5) FP-8N8227	4W5738-040			(4) FP-8N0703 1.7" PIN, STRT. OR (4) FP-8N1849 1.7" PIN, TAPER	(2) FP-7M4046 (1) FP-8M5477	(2) FP-8N8940 (.185") OR (2) FP-1003652 (.214")

LINE	ROD BRG STD	ROD BRG 0.010	ROD BRG 0.020	ROD BRG 0.025	ROD BRG 0.030	ROD BRG 0.040	ROD BRG 0.050	MAIN BRG STD.	MAIN BRG 0.010
5	(6) FP-2M8499			(6) FP-2M8500			(6) FP-2M8501	(1) FP-8F1931 (4) FP-8F1932 (1) FP-4H5510 (1) FP-6H4510	
5A	(6) FP-2M8499			(6) FP-2M8500			(6) FP-2M8501	(1) FP-8F1931 (4) FP-8F1932 (1) FP-4H5510 (1) FP-6H4510	
5B	(6) FP-8N7933	(6) FP-8N7933-020		(6) FP-8N7934			(6) FP-8N7935	(6) FP-8N7923 (1) FP-8N7928	
5C	(6) FP-2M8499			(6) FP-2M8500			(6) FP-2M8501	(5) FP-9M2429 (1) FP-9M2430 (1) FP-9M2431	
6	(6) FP-7W2136			(6) FP-8N5339	(6) FP-7W2136-030		(6) FP-8N5338	(6) FP-7W2138 (1) FP-7W2137	
6A	(6) FP-1S2785	(8) FP-4S9470	(8) FP-4S9471		(8) FP-4S9472			(4) FP-1S2777 (1) FP-1S2778	(4) FP-4S9483 (1) FP-4S9462
7	(8) FP-1W8539			(8) FP-4W5693			(8) FP-4W5694	(5) FP-4W5488 *	
7A	(8) FP-7N2581			(8) FP-7N2582			(8) FP-7N2583	(4) FP-7N2458 (1) FP-7N2483	
8	(12) FP-1W8539			(12) FP-1W5693			(12) FP-1W5694	(7) FP-4W5488	
8A	(12) FP-7N2581			(12) FP-7N2582			(12) FP-7N2583	(7) FP-2S2836	
8	(16) FP-1W8539			(16) FP-1W5693			(16) FP-1W5694	(9) FP-4W5488	
10	(6) FP-9Y9497	FP-9Y9497-010		(6) FP-4W5702		(6) FP-9Y9497-040	(8) FP-4W5703	(7) FP-4W5492 * ALTERNATE BEARING FP-8N8652	(6) FP-4W5492-010
10A	(6) FP-9Y7735			(6) FP-7E0558			(6) FP-7E0559	(7) FP-4W5492	(6) FP-4W5492-010
10B	(6) FP-8N5434			(6) FP-8N5435			(6) FP-8N5436	(7) FP-8N5429	
11	(8) FP-9Y9497	FP-9Y9497-010		(8) FP-4W5702		(8) FP-9Y9497-040	(8) FP-4W5703	(5) FP-4W5492	(6) FP-4W5492-010
11A	(8) FP-9Y9497	FP-9Y9497-010		(8) FP-4W5702		(8) FP-9Y9497-040	(8) FP-4W5703	(5) FP-4W5492	(6) FP-4W5492-010
12	(12) FP-9Y9497	FP-9Y9497-010		(12) FP-4W5702		(12) FP-9Y9497-040	(12) FP-4W5703	(7) FP-4W5492	(6) FP-4W5492-010
12A	(12) FP-9Y9497	FP-9Y9497-010		(12) FP-4W5702		(12) FP-9Y9497-040	(12) FP-4W5703	(7) FP-4W5492	(6) FP-4W5492-010
13	(8) FP-1N4336			(6) FP-1N4337			(6) FP-1N4338	*(1) FP-1N4316 (4) FP-1N4317 (1) FP-1N4318 (1) FP-1N4331	
13A	(8) FP-1N4336			(6) FP-1N4337			(6) FP-1N4338	#(1) FP-9M3893 (4) FP-9M3894 (1) FP-9M3895 (1) FP-9M3896	* .1805" THICK # .2474" THICK

LINE	MAIN BRG 0.020	MAIN BRG 0.025	MAIN BRG 0.030	MAIN BRG 0.040	MAIN BRG 0.050	MAIN BRG 0.060	PIN BUSHING	CAM BEARING	THRUST WASHERS
5		(1) FP-2H2451 (4) FP-2H2449 (1) FP-2H2450 (1) FP-7H4448	(1) FP-6F1931-030 (4) FP-6F1932-030 (1) FP-4H5510-030 (1) FP-6H4510-030		(1) FP-6F1935 (4) FP-6F1936 (1) FP-4H5512 (1) FP-7H4449		(6) FP-4M9183	(2) FP-4H9640 (3) FP-8F8523	NOT USED
5A		(1) FP-2H2451 (4) FP-2H2449 (1) FP-4H5511 (1) FP-7H4448	(1) FP-6F1931-030 (4) FP-6F1932-030 (1) FP-4H5510-030 (1) FP-6H4510-030		(1) FP-6F1935 (4) FP-6F1936 (1) FP-4H5512 (1) FP-7H4449		(6) FP-4M9183	(2) FP-4H9640 (3) FP-8F8523	NOT USED
5B		(6) FP-8N7924 (1) FP-8N7929			(6) FP-8N7925 (1) FP-8N7930		(6) FP-4M9183	(2) FP-4H9640 (3) FP-8F8523	NOT USED
5C		(5) FP-1S7573 (1) FP-1S7574 (1) FP-1S7575			(5) FP-1S7576 (1) FP-1S7577 (1) FP-1S7578				
6		(6) FP-8N5346 (1) FP-8N5341			(6) FP-8N5347 (1) FP-8N5342	(6) FP-7W2138-060 (1) FP-7W2137-060	(6) FP-1M6107	(12) FP-5M3560 (2) FP-5M3803	NOT USED
6A	(4) FP-4S9466 (1) FP-4S9485		(4) FP-4S9469 (1) FP-4S9468				(6) FP-1S2815		NOT USED
7		(5) FP-8N5957			(5) FP-8N5958		(8) FP-8N2018	NOT USED	(2) FP-8S1162
7A		(4) FP-7N2459 (1) FP-7N2464			(4) FP-7N2461		(8) FP-1M6107	NOT USED	NOT USED
8		(7) FP-8N5957			(7) FP-8N5958		(12) FP-8N2018	NOT USED	(2) FP-8S1162
8A		(7) FP-5S8303			(7) FP-5S8306		(12) FP-8N2018	NOT USED	(2) FP-8S1162
9		(9) FP-8N5957			(9) FP-8N5958		(16) FP-8N2018	NOT USED	(2) FP-8S1162
10		(7) FP-4W5698 FP-4W5699 SUPPLIED WITH CRANK KIT		(7) FP-4W 5492-040	(7) FP-4W5699 FP-4W5690 SUPPLIED WITH CRANK KIT	(7) FP-4W5492-060	*(6) FP-8N0705 OR #(6) FP-8N0706 OR ‡ (6) FP-8N2018 * STRAIGHT ROD # 6 DEG.TAPER ‡ 9 DEG. TAPER	(6) FP-4N0685 (1) FP-4N6658	(2) FP-7E9282
10A		(7) FP-4W5698		(7) FP-4W 5492-040	(7) FP-4W5699	(7) FP-4W5492-060	(6) FP-4P8495 ‡ (6) FP-8N2018	(6) FP-4N0685 (1) FP-4N6658	(2) FP-7E9282
10B		(7) FP-8N5430		(7) FP-4W 5492-040	(7) FP-8N5431		‡ (6) FP-8N2018 * FP-8N0705	(6) FP-4N0685 (1) FP-4N6658	(2) FP-7E9282
11		(5) FP-4W5698		(7) FP-4W 5492-040	(5) FP-4W5699	(5) FP-4W5492-060	*(8) FP-8N0705 OR #(8) FP-8N0706 OR ‡ (8) FP-8N2018 * STRAIGHT ROD # 6 DEG.TAPER ‡ 9 DEG. TAPER	(3) FP-4N0685 (2) FP-4N6658	(2) FP-7E9282
11A		(5) FP-4W5698		(7) FP-4W 5492-040	(5) FP-4W5699	(5) FP-4W5492-060	(8) FP-4P8495 ‡ (8) FP-8N2018	(3) FP-4N0685 (2) FP-4N6658	(2) FP-7E9282
12		(7) FP-4W5698		(7) FP-4W 5492-040	(7) FP-4W5699	(7) FP-4W5492-060	*(12) FP-8N0705 OR #(12) FP-8N0706 OR ‡ (12) FP-8N2018 * STRAIGHT ROD # 6 DEG.TAPER	(5) FP-4N0685 (2) FP-4N6658	(2) FP-7E9282
12A		(7) FP-4W5698		(7) FP-4W 5492-040	(7) FP-4W5699	(7) FP-4W5492-060	(8) FP-4P8495 ‡ (8) FP-8N2018	(5) FP-4N0685 (2) FP-4N6658	(2) FP-7E9282
13		*(1) FP-1N4319 (4) FP-1N4320 (1) FP-1N4321 (1) FP-1N4332			*(1) FP-1N4322 (4) FP-1N4323 (1) FP-1N4324 (1) FP-1N4333		(6) FP-8N2275	(6) FP-2H2330 (1) FP-2H7878	NOT USED
13A		*(1) FP-9M4872 (4) FP-9M4873 (1) FP-1M4874 (1) FP-9M4875		* .1805" THICK # .2474" THICK	*(1) FP-9M4877 (4) FP-9M4878 (1) FP-9M4879 (1) FP-9M4880		(6) FP-4H9842	(6) FP-2H2330 (1) FP-2H7878	NOT USED

LINE	ROD BRG STD	ROD BRG 0.010	ROD BRG 0.020	ROD BRG 0.025	ROD BRG 0.030	ROD BRG 0.040	ROD BRG 0.050	MAIN BRG STD.	MAIN BRG 0.010
138	(8) FP-1N4338			(8) FP-1N4337			(8) FP-1N4338	/(1) FP-8M3893 (4) FP-8M3894 (1) FP-8M3895 (1) FP-8M3898 * .1805" THICK # .2474" THICK	
14	(12) FP-8N7769			(12) FP-8N7770			(12) FP-8N7771	(7) FP-8N7764	
15	(18) FP-8N7769			(18) FP-8N7770			(18) FP-8N7771	(8) FP-8N7764	
16	(8) FP-8N7769			(8) FP-8N7770			(8) FP-8N7771	(5) FP-8N7764	
17	(4) FP-4W5739	(4) FP-8N8221	(4) FP-8N8222		(4) FP-8N8223	FP-4W5739-040	FP-4W5739-050	(4) FP-4W5738 (1) FP-7S9439	(4) FP-8N8225 (1) FP-7S9844
17A	(4) FP-4W5739	(4) FP-8N8221	(4) FP-8N8222		(4) FP-8N8223	FP-4W5739-040	FP-4W5739-050	(4) FP-4W5738 (1) FP-7S9439	(4) FP-8N8225 (1) FP-7S9844
18	(4) FP-9F8580				(4) FP-9F8581			(1) FP-1H1544 (2) FP-1H1545 (1) FP-1H1548 (1) FP-1H1547	
19	(4) FP-9F8580					(4) FP-9F8581		(1) FP-4F1724 (2) FP-4F1725 (1) FP-4F1726 (1) FP-4F1727	
20	(4) FP-8N6308	(4) FP-1N3821	(4) FP-1N3822		(4) FP-8N6308-030		(4) FP-1W3906	(3) FP-4W8093 (2) FP-4W8092	(3) FP-8N8976 (2) FP-8N9022
20A	(4) FP-8N6308	(4) FP-1N3821	(4) FP-1N3822		(4) FP-8N6308-030		(4) FP-1W3906	(3) FP-1W0312 (2) FP-1W0311	(3) FP-1W1681 (2) FP-1W1655
	W/C/S FP-1W9771 S/N'S 7EB1-900999				S/N'S 6DC1-385, & 3PC1-447				
21	(6) FP-9F8580				(6) FP-9F8581			(1) FP-1H1544 (4) FP-1H1545 (1) FP-1H1548 (1) FP-1H1547	
22	(6) FP-9F8580				(6) FP-9F8581			(1) FP-1H1544 (4) FP-1H1545 (1) FP-1H1548 (1) FP-5H7487	
23	(8) FP-4W5739	(8) FP-8N8221	(8) FP-8N8222		(8) FP-8N8223	FP-4W5739-040	FP-4W5739-050	(6) FP-4W5738 (1) FP-7S9439	(6) FP-8N8225 (1) FP-7S9844
24	(4) FP-7W2136			(4) FP-8N5339	(4) FP-7W2136-030		(4) FP-8N5338	(4) FP-7W2138 (1) FP-7W2137	
25	(8) FP-2M8498			(8) FP-2M8500			(8) FP-2M8501	(1) FP-6F1931 (4) FP-6F1932 (1) FP-6F1933 (1) FP-6H4510	
26	(4) FP-2M8498			(4) FP-2M8500			(4) FP-2M8501	(1) FP-6F1931 (2) FP-6F1932 (1) FP-6H5510 (1) FP-6H4510	
27	(4) FP-8N7933		(4) FP-8N7933-020	(4) FP-8N7934			(4) FP-8N7935	(4) FP-8N7923 (1) FP-8N7928	
28	(6) FP-9F8580				(6) FP-9F8581			(1) FP-4F1724 (4) FP-4F1725 (1) FP-4F1726 (1) FP-4F1727	
29	(8) FP-1077330			(8) FP-1077331			(8) FP-1077332	(5) FP-1050253	

LINE	MAIN BRG 0.020	MAIN BRG 0.025	MAIN BRG 0.030	MAIN BRG 0.040	MAIN BRG 0.050	MAIN BRG 0.060	PIN BUSHING	CAM BEARING	THRUST WASHERS
13B		/(1) FP-8M4872 (4) FP-8M4873 (1) FP-1M4874 (1) FP-8M4875 * .1805" THICK # .2474" THICK			/(1) FP-8M4877 (4) FP-8M4878 (1) FP-8M4879 (1) FP-8M4880 * .1805" THICK # .2474" THICK		(8) FP-8N2275	(8) FP-2H2330 (1) FP-2H7878	NOT USED
14		(7) FP-8N7785			(7) FP-8N7786		(12) FP-8N2275	(7) FP-5L2884	(2) FP-4L4853
15		(9) FP-8N7785			(9) FP-8N7786		(18) FP-8N2275	(9) FP-5L2884	(2) FP-4L4853
16		(5) FP-8N7785			(5) FP-7N7786		(8) FP-8N2275	(5) FP-5L2884	(2) FP-4L4853
17	(4) FP-8N8228 (1) FP-7S8845		(4) FP-8N8227 (1) FP-7S8846				*(4) FP-8H3884	(1) FP-9M5477 (2) FP-7M4046	NOT USED NOT USED
17A	(4) FP-8N8228 (1) FP-7S8845		(4) FP-8N8227 (1) FP-7S8846				/(4) FP-8N0702	(1) FP-9M5477 (2) FP-7M4046	NOT USED
		NOTE: BALANCER BUSHINGS D330A-D330B					*1.5" PIN 1.44" WIDE #1.5" PIN 1.388" WIDE		
18			(1) FP-1H3729 (2) FP-1H3730 (1) FP-1H3728 (1) FP-1H3731				(4) FP-8F1848	(1) FP-7F8285 (2) FP-7F8284	NOT USED
19			(1) FP-4F8375 (2) FP-4F8374 (1) FP-4F8377 (1) FP-4F8376				(4) FP-8F1848	(1) FP-7F8285 (2) FP-7F8284	NOT USED
20	(3) FP-8N8872 (2) FP-8N9023		(3) 4W8083-030 (2) 4W8082-030	(3) 4W8093-040 (2) 4W8082-040	(3) FP-8N8874 (2) FP-8N9020		/(4) FP-8N0701	(4) FP-8N5246	(2) FP-8N8840 .185"
20A	(3) FP-1W1862 (2) FP-1W1856				(3) FP-1W1863 (2) FP-1W1857		*(4) FP-8N5082		(2) FP-7N8342 .214" OR (2) FP-1003652 .214"
21			(1) FP-1H3729 (4) FP-1H3730 (1) FP-1H3728 (1) FP-1H3731				(6) FP-8F1848 * TAPERED # STRAIGHT	(1) FP-7F8285 (2) FP-7F8284	NOT USED
22			(1) FP-1H3729 (4) FP-1H3730 (1) FP-1H3728 (1) FP-5H8021				(6) FP-8F1848	(1) FP-7F8285 (2) FP-7F8284	NOT USED
23	(6) FP-8N8228 (1) FP-7S8845		(6) FP-8N8227 (1) FP-7S8846				*(6) FP-8H3884 *1.5" PIN 1.44" WIDE /(6) FP-8N0702 #1.5" PIN 1.388" WIDE	(1) FP-9M5477 (4) FP-7M4046	NOT USED
24		(4) FP-8N5348 (1) FP-8N5341			(4) FP-8N5347 (1) FP-8N5342		(4) FP-1M8107	(8) FP-5M5380 (2) FP-5M3603	NOT USED
25		(1) FP-2H2451 (4) FP-2H2449 (1) FP-2H2450 (1) FP-7H4448			(1) FP-6F1935 (4) FP-6F1936 (1) FP-6F1937 (1) FP-7H4449		(6) FP-1M8107	(3) FP-8F8523 (1) FP-8F8521	NOT USED
26		(1) FP-2H2451 (2) FP-2H2449 (1) FP-4H5511 (1) FP-7H4448			(1) FP-6F1935 (2) FP-6F1936 (1) FP-4H5512 (1) FP-7H4449		(4) FP-4M8183	(2) FP-8F8523 (1) FP-8F8521	NOT USED
27		(4) FP-8N7824 (1) FP-8N7828			(4) FP-8N7925 (1) FP-8N7930		(4) FP-4M8183	(2) FP-8F8523 (1) FP-8F8521	NOT USED
28			(1) FP-4F8375 (4) FP-4F8374 (1) FP-4F8377 (1) FP-4F8376				(4) FP-8F1848	(1) FP-7F8285 (2) FP-7F8284	NOT USED
29		(5) FP-1050254			(5) FP-1050255		(8) FP-1181855	(10) FP-1181358	(2) FP-7C6208

LINE	ROD BRG STD	ROD BRG 0.010	ROD BRG 0.020	ROD BRG 0.025	ROD BRG 0.030	ROD BRG 0.040	ROD BRG 0.050	MAIN BRG STD.	MAIN BRG 0.010
29A	(8) FP-1077330			(8) FP-1077331			(8) FP-1077332	(5) FP-1050253	
29B	(8) FP-1077330			(8) FP-1077331			(8) FP-1077332	(5) FP-1050253	
30	(12) FP-1077330			(12) FP-1077331			(12) FP-1077332	(7) FP-1050253	
30A	(12) FP-1077330			(12) FP-1077331			(12) FP-1077332	(7) FP-1050253	
30B	(12) FP-1077330			(12) FP-1077331			(12) FP-1077332	(7) FP-1050253	
31	(16) FP-1077330			(16) FP-1077331			(16) FP-1077332	(9) FP-1050253	
31A	(16) FP-1077330			(16) FP-1077331			(16) FP-1077332	(9) FP-1050253	
31B	(16) FP-1077330			(16) FP-1077331			(16) FP-1077332	(9) FP-1050253	

LINE	MAIN BRG 0.020	MAIN BRG 0.025	MAIN BRG 0.030	MAIN BRG 0.040	MAIN BRG 0.050	MAIN BRG 0.060	PIN BUSHING	CAM BEARING	THRUST WASHERS
29A		(5) FP-1050254			(5) FP-1050255		(8) FP-1181855 OR #(8) FP-1W9188	(10) FP-7N2048	(2) FP-7C8209
29B		(5) FP-1050254			(5) FP-1050255		(8) FP-1181855	(10) FP-1011198	(2) FP-7C8209
30		(7) FP-1050254			(7) FP-1050255		(12) FP-1181855	(14) FP-1181359 OR (14) FP-7N2048	(2) FP-7C8209
30A		(7) FP-1050254			(7) FP-1050255		(12) FP-1181855 OR #(12) FP-1W9188	(14) FP-1181359 OR (14) FP-7N2048	(2) FP-7C8209
30B		(7) FP-1050254			(7) FP-1050255		(12) FP-1181855	(14) FP-1011198	(2) FP-7C8209
31		(9) FP-1050254			(9) FP-1050255		(12) FP-1181855	(18) FP-1181359 OR (18) FP-7N2048	(2) FP-7C8209
31A		(9) FP-1050254			(9) FP-1050255		(12) FP-1181855 OR #(12) FP-1W9188	(18) FP-1181359 OR (18) FP-7N2048	(2) FP-7C8209
31B		(9) FP-1050254			(9) FP-1050255		(12) FP-1181855	(18) FP-1011198	(2) FP-7C8209

USE WITH CONRODS FP-1W4300, FP-1W4800, FP-8N8020

OVERSIZED O.D. ENGINE BEARINGS

FROM LINE 5B & 27

BEARING TYPE	STD. I.D. STD. O.D.	STD. I.D. .025" O/S O.D.	.025" O/S I.D. .025" O/S O.D.	STD. I.D. .010" O/S O.D.
MAIN BEARING	FP-8N7923	FP-8N7926	FP-8N7927	
THRUST BEARING	FP-8N7928	FP-8N7931	FP-8N7932	

FROM LINE 7,8,9

BEARING TYPE	STD. I.D. STD. O.D.	STD. I.D. .025" O/S O.D.	.025" O/S I.D. .025" O/S O.D.	STD. I.D. .010" O/S O.D.
MAIN BEARING	FP-4W5488	FP-8N5956	FP-8N5955	
MAIN BEARING			(4) FP-7N2462 LINE 7	
MAIN BEARING			(1) FP-7N2467 LINE 7	

FROM LINE 13

BEARING TYPE	STD. I.D. STD. O.D.	STD. I.D. .025" O/S O.D.	.025" O/S I.D. .025" O/S O.D.	STD. I.D. .010" O/S O.D.
MAIN BEARING	FP-1N4316	FP-1N4325	FP-1N4328	
MAIN BEARING	FP-1N4317	FP-1N4326	FP-1N4329	
MAIN BEARING	FP-1N4318	FP-1N4327	FP-1N4330	
THRUST BEARING	FP-1N4331	FP-1N4334	FP-1N4335	

FROM LINE 6

BEARING TYPE	STD. I.D. STD. O.D.	STD. I.D. .025" O/S O.D.	.025" O/S I.D. .025" O/S O.D.	STD. I.D. .010" O/S O.D.
MAIN BEARING	FP-7W2138	FP-8N5348	FP-8N5349	
THRUST BEARING	FP-7W2137	FP-8N5343	FP-8N5344	

FROM LINE 15,16

BEARING TYPE	STD. I.D. STD. O.D.	STD. I.D. .025" O/S O.D.	.025" O/S I.D. .025" O/S O.D.	STD. I.D. .010" O/S O.D.
MAIN BEARING	FP-8N7769			FP-8N7772

FROM LINE 10,11,12

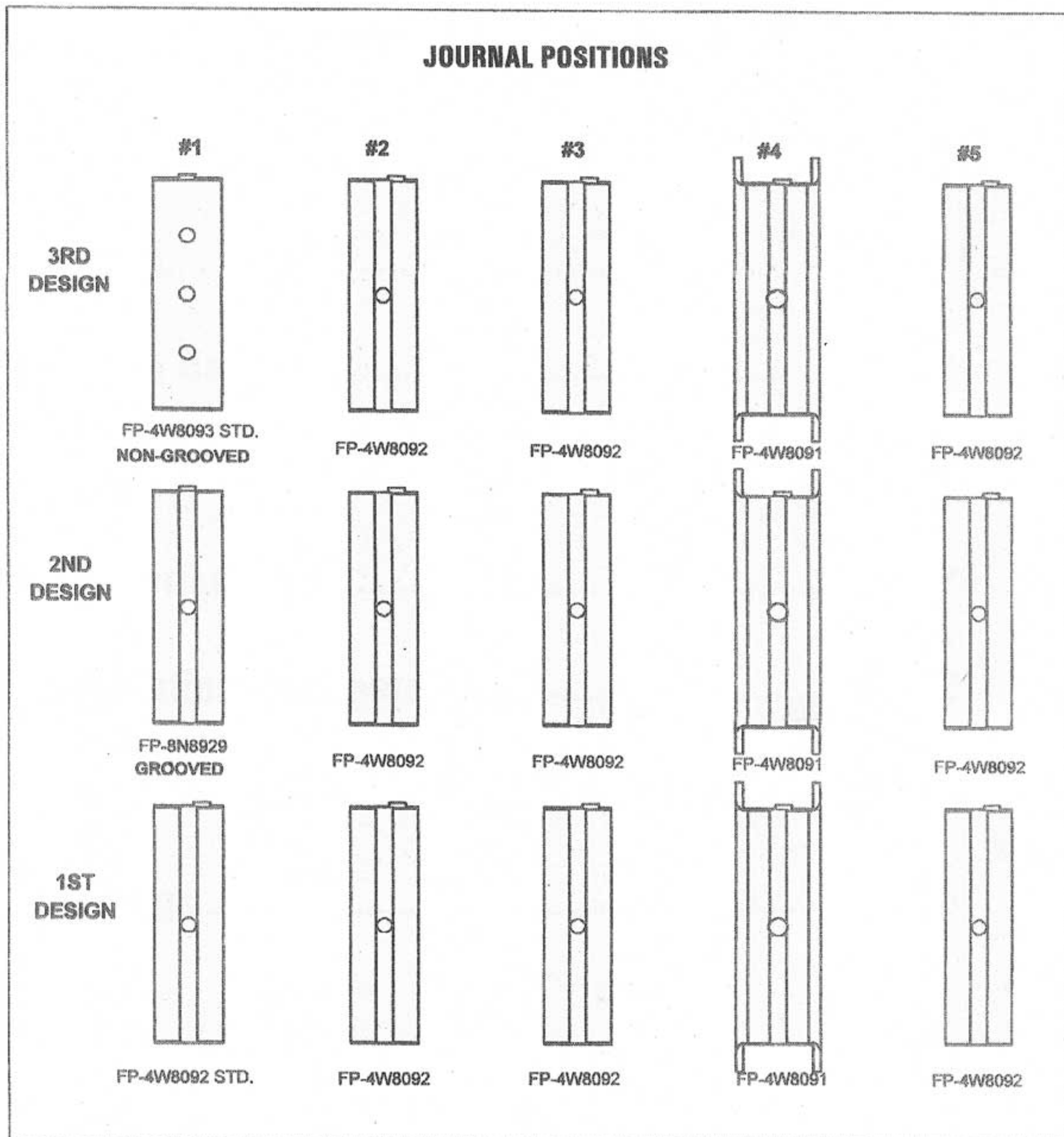
BEARING TYPE	STD. I.D. STD. O.D.	STD. I.D. .025" O/S O.D.	.025" O/S I.D. .025" O/S O.D.	STD. I.D. .050" O/S O.D.
MAIN BEARING	FP-9Y9497		FP-4W5701	FP-4W5700

FROM LINE 2 & 20

BEARING TYPE	STD. I.D. STD. O.D.	STD. I.D. .010" O/S O.D.	.020" O/S I.D. .010" O/S O.D.	.050 I.D. .010" O/S O.D.
MAIN BEARING	FP-8N8929	FP-8N8928	FP-8N8930	FP-8N8927
MAIN BEARING	FP-8N9084	FP-8N9080	FP-8N9079	FP-8N9078
MAIN BEARING	FP-4W8091	FP-8N9067	FP-8N9068	FP-8N9069
MAIN BEARING	FP-4W8092	FP-8N9021	FP-8N9019	FP-8N9018
MAIN BEARING	FP-4W8093	FP-8N8973	FP-8N8971	FP-8N8975

3208 MAIN BEARINGS

EACH MAIN BEARING SET IS IDENTICAL EXCEPT FOR THE FRONT MAIN BEARING.
BOTH THE FP-4W8092 AND THE FP-8N8929 ARE GROOVED, BUT THE FP-8N8929 IS THE BEARING REFERRED TO AS THE "GROOVED FRONT MAIN BEARING."



SECTION 4

FUEL SYSTEM

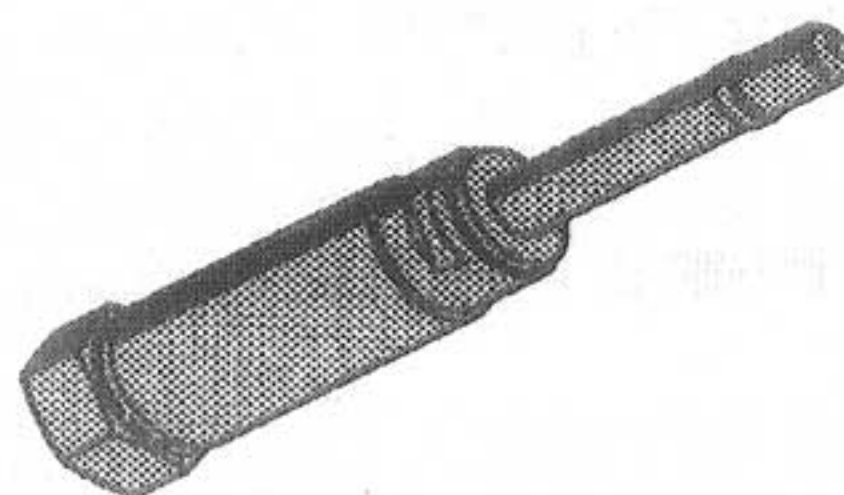
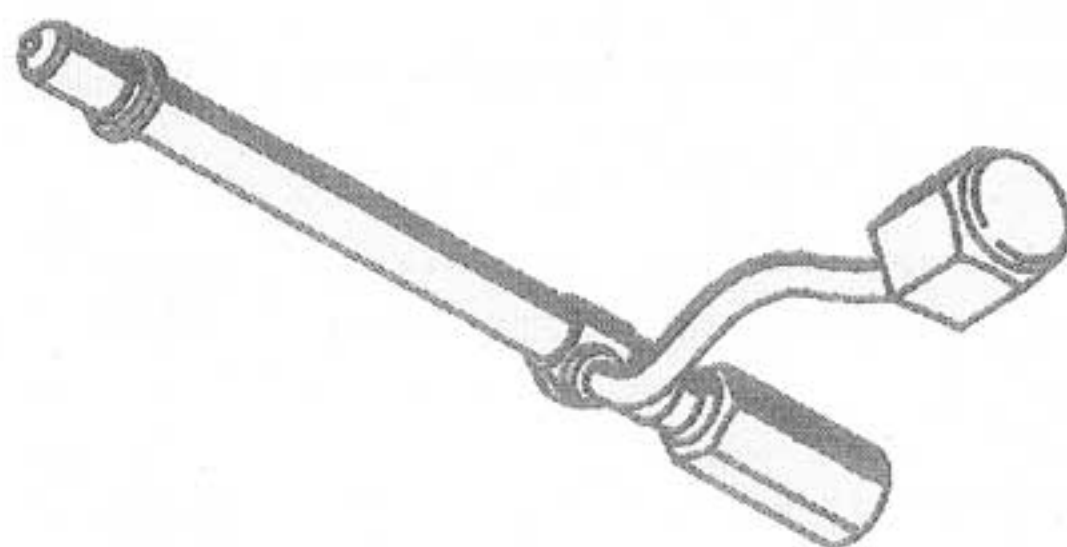
Injector Valves.....	124
Nozzles.....	124
Plunger & Barrels.....	124
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Fuel Injection Lines.....	126
Precombustion Chambers.....	127
Precombustion Chamber Seals & Gaskets.....	129
Glow Plugs.....	130

INJECTOR VALVES, NOZZLES, PLUNGERS & BARRELS

ENGINE MODELS	INJECTOR NOZZLE VALVE	ENGINE MODELS	INJECTOR NOZZLE VALVE	ENGINE MODELS	INJECTOR NOZZLE VALVE
1100/3100	FP-9N2366	3400	FP-6B0927	D333C/3306	FP-7S9891
D315	FP-6B0914	3400	FP-9L6884	D353	FP-5H7936
3204	FP-4W7015	3400	FP-4W7017	D375/D397	FP-9F2393
3208 40S	FP-9N3299	3400	FP-4W7018	D379/D398	FP-7M7431
3208 40S	FP-9L6969	3400	FP-4W7019	ENGINE CAPSULE	NOZZLE#
3208 2Z,50Z	FP-1W5829	3400	FP-9N3246	3204	FP-8N3175
3208	FP-4W1819	3400	FP-7W7026	D336/1674	FP-8N3177
3208	FP-4W7016	ENGINE SERVICE GROUP *		D334/1674	FP-9N6173
3208	FP-4W8483	D311/D320	FP-6H3364	3400	FP-7N9843
3208	FP-7W3710	3304	FP-8N8796	D342T	FP-8N1831
3300	FP-7N0449	D333C,3306	FP-8M1584	D343	FP-8N3176
3300	FP-8N7005	D333C/3306	FP-3S6638	D346	FP-8N3176
17000	FP-6B0927				

NOZZLE ONLY

*SERVICE GROUP INCLUDES CAPSULE NOZZLE, O-RINGS & SEAL RING.



PLUNGERS & BARRELS

ENGINE MODELS	PLUNGER BARREL	ENGINE MODELS	PLUNGER BARREL	ENGINE MODELS	PLUNGER BARREL
D311	FP-8M9753	D334	FP7S6681	D343,D346,3408	FP-8M2667
D315/D318	FP-8M9758	1673C	FP-9L4102	D346,D348,3408	FP-3S1467
D320A	FP-9H5796	D336,1674	FP-3S8336	D337,D339,3412	FP-6N1043
D330A/D333A	FP-9H5797	D343,D346,1693	FP-8S3656	D339	FP-1P3409
D330B,D330C,D333A	FP-4S7913	3306	FP-7W5929	D342C,D343T	FP-8N3280
3204	FP-8N3539	3306B	FP-1W6541	D342C	FP-8M3280
3204	FP-4S5758	D333C/3306	FP-6N7527	D342,D343	FP-1P6400
3208	FP-1W3010	3406	FP-6N2766	D13000	FP-8M9757
1100	FP-9L8717	3400	FP-4N4997	D13000	FP-8M9760
1100	FP-9L8756	3400	FP-7N1183	D375,D397	FP-8M3279
1100	FP-9L9211	3400	FP-7N1220	D353,D379,D398	N/A
1100	FP-9L9835	3400	FP-7W0182	D353,D379,D399	N/A

REFER TO CAT® ENGINE PARTS BOOK FOR PROPER APPLICATION

PUMP ASSEMBLY, INJECTION

APPLICATION	PART NUMBER
D343,D346,1693	FP-8M2667
D353	FP-8M3138
D375,D397,3304,3306	FP-8M3279
D342,D343,D364,D386,	FP-8M3280
D311,	FP-8M9753
D326,D337	FP-8M9755
D4400,D4600,D13000,	FP-8M9757
D315,D318,D330,3208	FP-8M9758
D318,D326,D337,D17000	FP-8M9761
D339,D342,	FP-1P3409
D346,D348,D349	FP-3S1467
D353,D379,D398,D399	FP-2S7264

PUMP GROUP, FUEL TRANSFER

APPLICATION	PART NUMBER
D330,D333,	FP-9M4953
D330,D333,	FP-9M4955
D330C,D333,1673,3304,3306	FP-4N4864
D342,D343,1140,D330C,	FP-4N4873
D330C,D333C,3304,3306,	FP-4N4878
D342	FP-4N4880
D353	FP-6N1813
D342	FP-1P0005

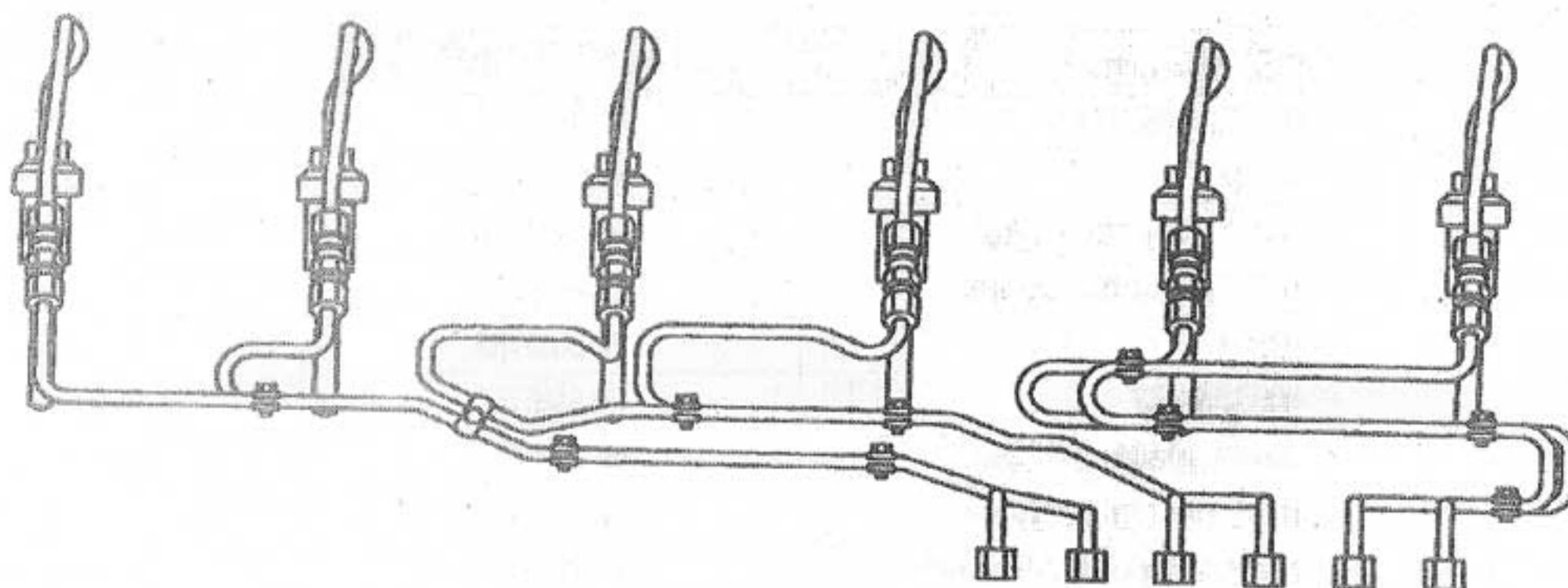
PUMP GROUP, FUEL HAND PRIMING

APPLICATION	PART NUMBER
GENERAL USAGE	FP-4W0788

FUEL PUMP OVERHAUL KIT 3208
FP-00011 BASIC
FP-00012 MAJOR

ALL PUMPS ARE NEW.
REFER TO CAT® ENGINE PARTS BOOK FOR PROPER APPLICATION.

FUEL INJECTION LINES



ENGINE MODELS	LINE #1	LINE #2	LINE #3	LINE #4	LINE #5	LINE #6	LINE #7	LINE #8
D315,D330	FP-4M1451	FP-8M2042	FP-4M1453	FP-4M1454				
3208	FP-9Y0231	FP-9Y0232	FP-9Y0233	FP-9Y0234	FP-9Y0235	FP-9Y0236	FP-9Y0237	FP-9Y0238
D333,1673	FP-7M4331	FP-7M4332	FP-2M6613	FP-2M6614	FP-2M6615	FP-2M6616		
D330C	FP-5S7211	FP-5S7212	FP-5S7213	FP-5S7214				
3304	FP-4N3281	FP-4N3282	FP-4N3283	FP-4N3284				
3304	FP-8L5661	FP-7N3872	FP-8L5663	FP-8L5664				
3304	FP-7N2871	FP-7N2872	FP-8N9733	FP-7N2874				
3306	FP-7N2871	FP-7N2872	FP-8N9733	FP-7N2874	FP-7N2875	FP-7N2876		
3306	FP-4N3281	FP-4N3282	FP-4N3283	FP-4N8814	FP-6N1965	FP-6N1966		
D333C,3306	FP-8L5691	FP-8L5692	FP-8L5693	FP-8L5694	FP-2P8890	FP-8L5696		
D333C	FP-5S7171	FP-5S7172	FP-5S7173	FP-9S1230	FP-5S7175	FP-5S7176		
D334,1674	FP-7S7151	FP-7S7152	FP-7S7153	FP-7S7154	FP-7S7155	FP-7S7156		
D339	FP-4H9691	FP-4H9692	FP-4H9693	FP-4H9694				
D342, S/N 31B,32B,50B,49B1	FP-4H9611	FP-4H9612	FP-4H9613	FP-4H9614	FP-9H9615	FP-4H9616		
D342 S/N 17S1-17S3426	FP-2P2651	FP-2P2652	FP-2P2653	FP-2P2654	FP-2P2655	FP-2P2656		
D342 S/N 17S3427-UP	FP-7N7092	FP-7N7091	FP-2P2653	FP-2P2654	FP-2P2655	FP-2P2656		
3406	FP-4N9971	FP-4N9972	FP-4N9973	FP-4N9974	FP-4N9975	FP-4N9976		
3406 S/N 90U1, 92U1	FP-9Y1081	FP-9Y1082	FP-9Y1083	FP-9Y1084	FP-9Y1085	FP-9Y1086		
D343,1693	FP-1S2081	FP-1S2082	FP-1S2083	FP-1S2084	FP-1S2085	FP-1S2086		
D343	FP-8S9301	FP-8S9302	FP-8S9303	FP-8S9304	FP-8S9305	FP-8S9306		
D353	FP-8N3451	FP-8N3452	FP-8N3453	FP-8N3454	FP-8N3455	FP-8N3456		
D379,D398 (1 THRU 6)	FP-1W9201	FP-1W9202	FP-1W9203	FP-1W9204	FP-1W9205	FP-1W9206		
D379,D398 (7 THRU 12)	FP-1W9207	FP-1W9208	FP-1W9209	FP-1W9210	FP-1W9211	FP-1W9212		
D399 (1 THRU 8)	FP-1W9191	FP-1W9192	FP-1W9193	FP-1W9194	FP-1W9195	FP-1W9196	FP-1W9197	FP-1W9198
D399 (9 THRU 16)	FP-1W9198	FP-1W9197	FP-1W9196	FP-1W9195	FP-1W9194	FP-1W9193	FP-1W9192	FP-1W9191

REFER TO CAT® PARTS BOOK FOR PROPER APPLICATION.

PRECOMBUSTION CHAMBERS



ENGINE MODELS	SERIAL NUMBER		ARRANGEMENT NUMBER	CYLINDER HEAD GROUP	PRECOMBUSTION CHAMBER
FROM:	TO:				
D311,D315,D318					FP-2S1273
D315,D318,3208					FP-1S1987
D312,D4400,D4600,D8800					FP-2B3708
D318,D4400,D4600,D8800					FP-7B1844
D4600					FP-8B0493
D318G					FP-1S1970
D320					FP-2M8590
D315,D330					FP-5S1833
D330,D333					FP-5S1822
D334,1674					FP-9L5861
D334,1674					FP-9N1300
D330C	2B1	UP			FP-5S6795
D330C	4B1	4B6031			FP-8S3970
D330C	5B1	5B1196			FP-8S3970
D333C	23C1	UP			FP-5S6795
D333C	66D1	66D8890			FP-8S3970
D333C	67D1	67D1102			FP-8S1522
D339	34B1	UP			FP-2P0483
D346,D348,D349					FP-8N9489
D346,D348,D349					FP-8S6743
D375,D386,D397					FP-5F8265
D342	17S1				FP-2P0484
D342C	31B1	31B3109			FP-2P0483
D342C	31B3110	UP			FP-2P0484
D342C	49B1	49B321			FP-2P0483
D342C	49B322	UP			FP-2P0484
D342C	32B1	32B1765			FP-2P0483
D342C	32B1766	UP			FP-2P0484
D342C	50B1	50B300			FP-2P0483
D342C	50B301	UP			FP-2P0484
D343	62B1	UP			FP-8S1523
D353	97U1				FP-8S3617
D353D	46B809	UP			FP-7S5787
D353	47B409	UP			FP-7S5787
D379A	68B1	68B1616			FP-7S5787
D379A	69B1	69B824			FP-7S5787
D379B	68B1616	68B6681			FP-7S5787
D379B	68B824	68B2088			FP-7S5787
D379B	79B1	UP			FP-7S5787
D379B	34Z1	UP			FP-7S5787
D398A	66B1	66B2049			FP-7S5787
D398A	75B1	UP			FP-7S5787
D398A	35Z1	35Z543			FP-7S5787
D398A	67B1	67B920			FP-7S5787
D399	35B1	35B8937			FP-7S5787
D399	36Z1	36Z566			FP-7S5787
D399	91B1226				FP-7S5787
1673C	69D1	UP			FP-8S3970
1673C	76R1	UP			FP-8S3970
1683	65B1	UP			FP-8S1523

REFER TO CAT® PARTS BOOK FOR PROPER APPLICATION.

PRECOMBUSTION CHAMBERS (CONT.)

ENGINE MODELS	SERIAL NUMBER		ARRANGEMENT NUMBER	CYLINDER HEAD GROUP	PRECOMBUSTION CHAMBER
	FROM:	TO:			
3204	45V1		4N169, 4N303		FP-4N8809
3304	2B4364	UP			FP-5S6795
3304	4B6032	4B18935			FP-8S3970
3304	78P1	78P18798	4N3974, 4N3975,		FP-8S3970
3304			2P6783, 2P6784,		FP-8S3970
3304			2P6785, 2P9561,		FP-8S3970
3304			3P0134, 3P0136		FP-8S3970
3304	78P1	78P18798	4N3799, 4N3801,		FP-5S6795
3304			4N3803, 4N3806,		FP-5S6795
3304			4N3807, 2P6775,		FP-5S6795
3304			2P6776, 2P6777,		FP-5S6795
3304			2P6778, 2P6779,		FP-5S6795
3304			2P6780, 2P6781,		FP-5S6795
3304			2P6782		FP-5S6795
3304	48V1	48V16808		2P6484	FP-8S3970
3304				2P6274	FP-5S6795
3306	4WB1	UP			FP-9S8679
3306	23C740	23C1265			FP-8S3970
3306	23C1268	UP		2P6486	FP-8S3970
3306				6N8097	FP-5S6795
3306				2W2036	FP-5S6795
3306	66D1	UP		3N3916	FP-8S3970
3306				6N8103	FP-8S3970
3306				9N2382	FP-9S8679
3306				9N3561	FP-9S8679
3306				7N8538	FP-8S3970
3306				8N4393	FP-8S3970
3306				2P6486	FP-8S3970
3306				9N2382	FP-9S8679
3306				9N3561	FP-9S8679
3306	3N1	3N24132		2P6476	FP-5S6795
3306				2P6486	FP-8S3970
3306				2P6496	FP-9S8679
3306	76R371	76R2778			FP-9S8679
3306	76R2779	UP			FP-9S8679
3306	49V1	49V9668		2P6476	FP-5S6795
3306				2P6486	FP-8S3970
3408	90U1	UP			FP-4N3714
3408	91U1	UP			FP-4N3714
3408	92U1	UP			FP-4N3714
3408	70V1	UP			FP-4N3714
3408	75Z1	UP			FP-4N3714
3408	67U1	UP			FP-4N3714
3408	98U1	UP			FP-4N3714
3408	28V1	UP			FP-4N3714
3408	78Z1	UP			FP-4N3714
3408, 3412					FP-4W5719
3408, 3412					FP-4W5733
3412	38S1	UP			FP-4N3714
3412	60M1	UP			FP-4N3714

REFER TO CAT® PARTS BOOK FOR PROPER APPLICATION.

PRECOMBUSTION CHAMBER SEALS & GASKETS

FP DIESEL

ENGINE MODEL	O-RINGS	GASKETS	KITS
D311	FP-7B6868	FP-7H0736	
		FP-2H3088	
D315	FP-7B6868*	FP-9H4885	
	FP-2H3088	FP-9H4885	
D318	FP-7B6868*	FP-9H4885	
	FP-2H3088	FP-9H4885	
D320	FP-2H3088	FP-9H5897	
D326	FP-7F9134	FP-4H9610	
D330	FP-2H3088	FP-9H5879	
	FP-5S1105	FP-5M2667	FP-2S8966
	FP-7S3206	FP-5M2667	FP-2S8966
D333	FP-2H3088	FP-9H5879	
	FP-5S1105	FP-5M2667	FP-2S8966
	FP-7S3206	FP-5M2667	FP-2S8966
D334	FP-3S6538	FP-5M2667	FP-2S8966
D336	FP-3S6538	FP-5M2667	FP-2S8966
D337	FP-7F9134	FP-4H9610	
D339	FP-6B7021*	FP-6B7020	
	FP-6B7021*	FP-5H2579	FP-1P6439
D340	FP-4F9653	FP-5M2667	FP-2S8966
D342	FP-6B7021*	FP-6B7020	
	FP-6B7021*	FP-5H2579	FP-1P6439
	FP-6L7816	FP-5H2579	FP-1P6439
D343	FP-4F9653	FP-5M2667	FP-2S8966
D346	FP-2N5749	FP-5M2667	FP-2S8966
D348	FP-2N5749	FP-5M2667	FP-2S8966
D349	FP-2N5749	FP-5M2667	FP-2S8966
D353	FP-6B7021*	FP-6B7020	
	FP-6L7816	FP-1P8004	FP-1P8372
D364	FP-6B7021*	FP-6B7020	
D375	FP-6B7021*	FP-6B7020	
D379	FP-6B7021*	FP-6B7020	
	FP-6L7816	FP-1P8004	FP-1P8372

ENGINE MODEL	O-RINGS	GASKETS	KITS
D386	FP-6B7021*	FP-5M2667	FP-2S8966
D397	FP-6B7021*	FP-5M2667	FP-2S8966
D398	FP-6B7021*	FP-5M2667	FP-2S8966
	FP-6L7816	FP-1P8004	FP-1P8372
G398	FP-6L7816	FP-6L1576	
D399	FP-6B7021*	FP-5M2667	FP-2S8966
	FP-6L7816	FP-1P8004	FP-1P8372
G399	FP-6L7816	FP-6L1576	
1670	FP-5S1105	FP-5M2667	FP-2S8966
1673	FP-5S1105	FP-5M2667	FP-2S8966
	FP-7S3206	FP-5M2667	FP-2S8966
1674	FP-3S6538	FP-5M2667	FP-2S8966
1676	FP-3S6538	FP-5M2667	FP-2S8966
1693	FP-4F9653	FP-5M2667	FP-2S8966
3204	FP-8M4992	FP-5M2667	FP-2S8966
3300	FP-8M4992	FP-5M2667	FP-2S8966
	FP-7S3206	FP-2S8959	FP-2S8966
	FP-7S3206	FP-2S8960	FP-2S8966
3304	FP-7S3206	FP-5M2667	FP-2S8966
3306	FP-7S3206	FP-5M2667	FP-2S8966
3406	FP-2S2251	FP-4N7253	
3408	FP-2S2251	FP-4N7253	
3412	FP-2S2251	FP-4N7253	
3400	FP-1A2298	FP-4B5647	
	FP-1A2298	FP-2A3546	
4400	FP-1A2298	FP-2A3546	
	FP-7B6868*	FP-9H4885	
4600	FP-7B6868*	FP-9H4885	
D8800	FP-2B8293	FP-2B3705	
	FP-6B7021*	FP-6B7020	
D13000	FP-2B8293	FP-2B3705	
	FP-6B7021*	FP-6B7020	
D17000	FP-6B7021*	FP-6B7020	

*NOTE: IF OLD STYLE TWO PIECE COMBUSTION CHAMBER IS USED, A SMALLER O-RING (FP-4F5607) MAY BE NEEDED TO ASSEMBLE PRE-COMBUSTION CHAMBER.

PRECOMBUSTION GASKET KITS

KIT NUMBER	CONTENTS
FP-1P6439	FP-5H2579 FP-1P6441 FP-1P6442
FP-1P8372	FP-1P8004 FP-1P8005
FP-2S8966	FP-5M2667 FP-2S8959 FP-2S2960

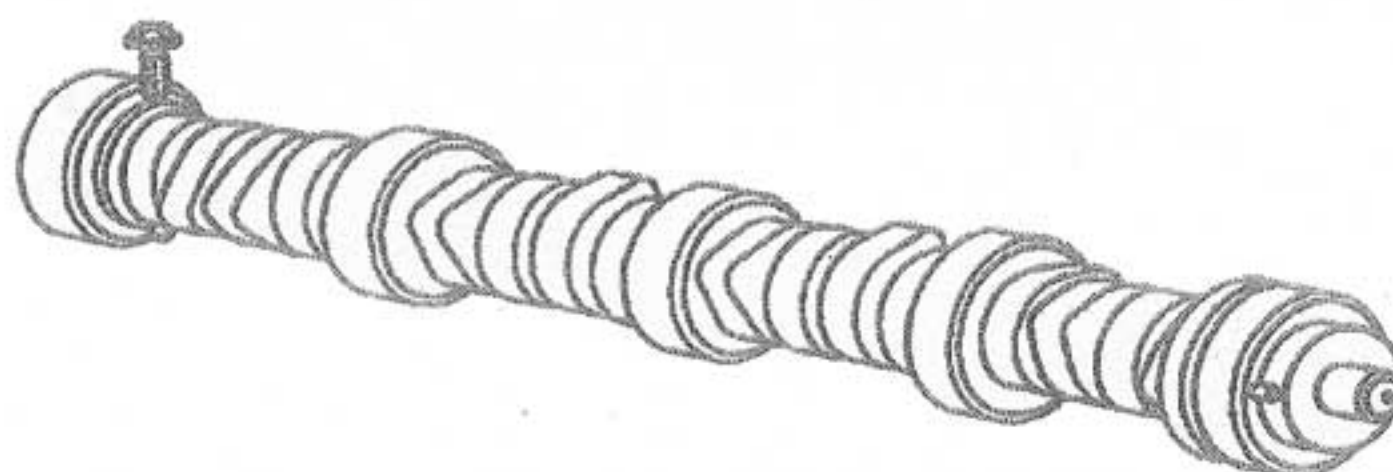
ENGINE MODELS	VOLTS	PART NUMBER
D315,D318, 12 MOTOR GRADER, 112 MOTOR GRADER, 212 MOTOR GRADER	24 VOLT	FP-3H2033
D330C,D333C, 1693, 3204, 3406, 3408,	12 VOLT	FP-3T8705
3406, 3408, 3412	24 VOLT	FP-3T8706
1670, 1673, 1674, 1676, 3306	12 VOLT	FP-3T9561
D334, D342, D343, D348, D353, D379, D398, D399	24 VOLT	FP-3T9562
D363	32 VOLT	FP-3T9563

SECTION 5

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CAMSHAFT & LIFTERS



ENGINE	CAMSHAFT P/N	DESCRIPTION	LIFTER P/N
D315	FP-5F6267		FP-6F3242
D318	FP-5F6266		FP-6F3242
D330A	FP-9Y3225	(FP-2S0531) PREVIOUS #	FP-7S3161
D330C	FP-9Y1723 W/O GEAR	(FP-7C3861) PREVIOUS #	FP-7S3161
D333A	FP-2S5650		FP-7S3161
D333B	FP-2S5650		FP-7S3161
D333C	FP-9Y1722 KIT	(FP-7C3864) BARE CAM	FP-7S3161
D334	FP-4S6584	INTAKE	NOT USED
	FP-2S9945	EXHAUST	NOT USED
D336	FP-2S9773	INTAKE, L.H.	NOT USED
	FP-4S7459	INTAKE, R.H.	NOT USED
	FP-2S9772	EXHAUST	NOT USED
D339	FP-1W3177		FP-2F2553
D342	FP-9Y3230 KIT	FP-1W3176 BARE CAM	FP-5S1220
D343	FP-9Y3132	(FP-5M3703) PREVIOUS #	NOT USED
	FP-9Y3232	(FP-7M3845) PREVIOUS #	NOT USED
D346A	FP-9M3161	INTAKE, R.H.	NOT USED
	FP-9M3162	INTAKE, L.H.	NOT USED
	FP-9M3163	EXHAUST, R.H.	NOT USED
	FP-9M3164	EXHAUST, L.H.	NOT USED
D346B	FP-3S3491	INTAKE, L.H.	NOT USED
	FP-5S1315	INTAKE, R.H.	NOT USED
	FP-1P1257	EXHAUST	NOT USED
D348	FP-3S6327	INTAKE, L.H.	NOT USED
	FP-5S0331	INTAKE, R.H.	NOT USED
	FP-1P3177	EXHAUST	NOT USED
D349	FP-8S6803	INTAKE	NOT USED
	FP-8S6806	EXHAUST	NOT USED
D353	FP-1298364	(FP-1N4085) PREVIOUS #	FP-2H3069
D379	FP-4P3344 KIT	(FP-1282397) BARE CAM	FP-5L5486
D398	FP-4P3346	(FP-1W1854) PREVIOUS #	FP-5L5486
D399	FP-1282399	(FP-1W1858) PREVIOUS #	FP-5L5486
1140	FP-2W4197	(FP-7C6950) PREVIOUS #	FP-9N5786

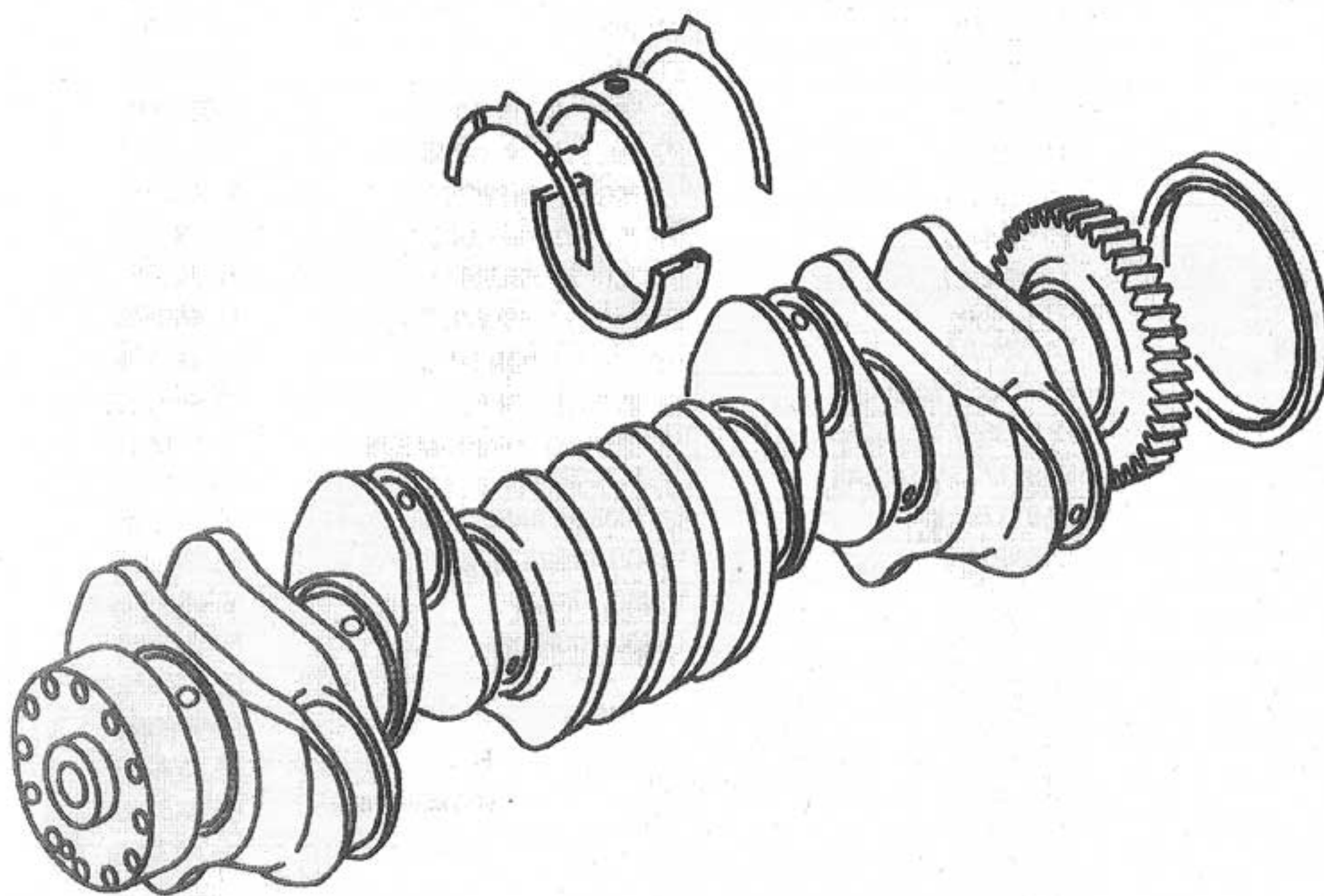
REFER TO CAT® ENGINE PARTS BOOK FOR PROPER APPLICATION.

CAMSHAFT & LIFTERS (CONT.)

ENGINE	CAMSHAFT P/N	DESCRIPTION	LIFTER P/N
1145	FP-2W4197	(FP-7C6950) PREVIOUS #	FP-9N5786
1150	FP-2W4197	(FP-7C6950) PREVIOUS #	FP-9N5786
1160	FP-2W4197	(FP-7C6950) PREVIOUS #	FP-9N5786
1670	FP-9Y3225		FP-7S3161
1673	FP-9Y3229		FP-7M4166
1673C	FP-7C3864 W/O GEAR	(FP-4P2942) BARE CAM	FP-7S3161
1674	FP-2S9945	EXHAUST	NOT USED
	FP-3S9562	INTAKE	NOT USED
1676	FP-4S7459	INTAKE, R.H.	NOT USED
	FP-2S9773	INTAKE, L.H.	NOT USED
	FP-2S9772	EXHAUST	NOT USED
1693	FP-9Y3231	(FP-5M3703) PREVIOUS #	NOT USED
	FP-9Y3232	(FP-7M3845) PREVIOUS #	NOT USED
3145	FP-2W4197	(FP-7C6950) PREVIOUS #	FP-9N5786
3150	FP-2W4197	(FP-7C6950) PREVIOUS #	FP-9N5786
3180	FP-2W4197	(FP-7C6950) PREVIOUS #	FP-9N5786
3204	FP-9Y3352	(FP-2W1221) PREVIOUS #	FP-4N0649
3208	FP-2W4197	(FP-7C6950) NON-TURBO	FP-9N5786
	FP-9Y3355 W/O GEAR	(FP-9N6808) TURBO	FP-9N5786
	FP-9N3597 W/O GEAR	(FP-9N3598) TURBO MARINE	FP-9L6931
3304	FP-9Y1723 W/O GEAR	(FP-7C3862) W/O GEAR	FP-7S3161
3306	FP-9Y1722 KIT	(FP-7C3864) BARE CAM	FP-7S3161
3406	FP-8N9245	TURBO, INDUSTRIAL	FP-6N4589
	FP-4W2430	TURBO, TRUCK	FP-6N4589
	FP-7W3797	TURBO, HIGH LIFT	FP-6N4589
3408	FP-2W7980		FP-6N4589
3412	FP-2W5289		FP-6N4589
3508	FP-7C0201	L.H.	FP-2W3256
	FP-7C0200	R.H.	FP-2W3256
3512	FP-7C0194	L.H.	FP-2W3256
	FP-7C0195	R.H.	FP-2W3256
3516	FP-8N9842	FRONT, L.H.	FP-2W3256
	FP-8N9847	REAR, L.H.	FP-2W3256
	FP-8N9844	FRONT, R.H.	FP-2W3256
	FP-8N9843	REAR, R.H.	FP-2W3256

REFER TO CAT® ENGINE PARTS BOOK FOR PROPER APPLICATION.

CRANKSHAFT GROUP



CRANKSHAFT, SEALS, DAMPERS, GEARS & MISC.

ENGINE	CRANKSHAFT P/N	FRONT SEAL	REAR SEAL	DAMPERS	GEARS	NOTES
D315	FP-3F6777	FP-4F6888	*	N/A		
D318	FP-3F5020	FP-4F6888	*	N/A		
D330A	FP-8M4505 Δ ✓	FP-8Y9895	FP-4W0452	N/A	FP-4M9933	
D330B	FP-8M4505 Δ ✓	FP-8Y9895	FP-4W0452	N/A	FP-4M9933	
D330C	FP-4N7692 Δ ✓	FP-8Y9895	FP-5S9022	N/A	FP-4M9933	
D333A	FP-9M2337	FP-8Y9895	FP-4W0452	FP-5H2870	FP-4M9933	
D333B	FP-9M2337	FP-8Y9895	FP-4W0452	FP-5H2870	FP-4M9933	
D333C	FP-2W7458 Δ ✓	FP-8Y9895	FP-5S9022	FP-9L2659/2P3912	FP-4M9933	
D334	FP-9L6388	FP-2S1509	FP-5S9022	FP-9S4444	FP-9N3623	
D336	FP-9S0647	FP-2S1509	FP-8S3293	FP-3S5763	NOT SERVICED	
D339	FP-9H9082	FP-4B4529	FP-6H4498	N/A	NOT SERVICED	
D342	FP-4M0447	FP-8H1319	FP-6H4498	FP-6H9095/6ND375	FP-4S7863	
D343	FP-2P3839	FP-2S1509	FP-5S3903	FP-9S4444/7M5562	FP-9S3013	
D346A	FP-1S2511	FP-7C7473	FP-7C7474	FP-5S3369		
D346B	FP-6N8324	FP-7C7473	FP-7C7474	FP-5S3369	FP-2P4563	
D348	FP-1W7578	FP-7C7473	FP-7C7474	FP-2P3787/7C6699	FP-5S0508	
D349	FP-6N8337	FP-7C7473	FP-7C7474	FP-2P3787/7C6699	FP-5S0508	
D353	FP-2P2800	FP-2W1733	FP-2W1734	FP-5M2632		
D379	FP-3N2957	FP-4W2606	FP-4W2607	FP-2P1793	FP-4L7839/4L9154	
D398	FP-4W7614	FP-4W2606	FP-4W2607	FP-2P1793		
D399	FP-4W7718	FP-4W2606	FP-4W2607	FP-2P1793		
1140	FP-9L6264	FP-9L7735	FP-7W3200	N/A	FP-9L7606	FP-9L8336, SLEEVE
1145	FP-9L6264	FP-9L7735	FP-7W3200	N/A	FP-9L7607	FP-9L8336, SLEEVE
1150	FP-9L6265	FP-9L7735	FP-7W3200	FP-9L8064/9L9282	FP-9L7608	FP-9L8336, SLEEVE
1160	FP-9L6266 ✓	FP-9L7735	FP-7W3200	FP-9L8064/9L9282	FP-9L7606	FP-9L8336, SLEEVE
1673	FP-9M2337	FP-8Y9895	FP-4W0452	FP-7M5562/9L2659		
1673C	FP-9M2337	FP-8Y9895	FP-4W0452	FP-1M7708/9L2659		
1674	FP-9S0124	FP-2W1509	FP-5S9022	FP-9S4444		
1676	FP-9S0647	FP-2W1509	FP-8S3293	FP-7S5763		
1693	FP-2P3840	FP-9N2539	FP-5S3903	FP-7M5562		
3145	FP-9L6264	FP-9L7735	FP-7W3200	FP-9L9282	FP-9L7606	FP-9L8336, SLEEVE
3150	FP-9L6265	FP-9L7735	FP-7W3200	FP-9L9282	FP-9L7607	FP-9L8336, SLEEVE
3160	FP-9L6266 ✓	FP-9L7735	FP-7W3200	FP-9L9282	FP-9L7608	FP-9L8336, SLEEVE
3204	FP-1W9771 Δ ✓	FP-9L7735	FP-7W3200	N/A	FP-1W9812	FP-9L8336, SLEEVE
3208	FP-9N6221 Δ ✓	FP-7C6660	FP-7W3200	FP-1W6760	FP-7N6290	FP-9L8336, SLEEVE
3304	FP-4N7692 Δ ✓	FP-8Y9895	FP-4W0452	N/A	FP-1W9812	
3306	FP-2W7458 Δ ✓	FP-8Y9895	FP-4W0452	FP-4W0337	FP-4M9933	
3406	FP-7C4859 Δ ✓	FP-2W1733	FP-2W1734	FP-1084096	FP-1W9302	
3408	FP-1W6209 ✓	FP-2W1733	FP-2W1734	FP-1084096 #	FP-7N7591	
3408	FP-1W5009	FP-2W1733	FP-2W1734	FP-2P3787/7C6699	FP-7N7591	
3412	FP-2W4088	FP-2W1733	FP-2W1734	*		
3508	FP-9Y3798	FP-1138432	FP-1138433	*		
3512	FP-7E4897	FP-1138432	FP-1138433	*		
3516	FP-7E5165	FP-1138432	FP-1138433	*		

*MULTIPLE APPLICATIONS, SERIAL NUMBER NEEDED.
REFER TO CAT® PARTS BOOK FOR PROPER APPLICAT

Δ WITHOUT GEAR
✓ FP DIESEL STOCK ITEM

AUTOMOTIVE APPLICATION

This diagram illustrates the exploded view of a cylinder head assembly. The main component is the cylinder head, which features several intake and exhaust ports. Various components are shown in their relative positions for assembly, including:

- Two intake valves at the bottom left, each with a valve stem, a valve guide, and a valve spring.
- Two exhaust valves at the top right, each with a valve stem, a valve guide, and a valve spring.
- Two camshafts positioned horizontally above the valves, with their respective cam followers (shims) and camshaft bearings.
- Two pushrods, one for each valve, positioned vertically above the camshaft.
- Two rocker arms, one for each valve, positioned horizontally above the pushrods.
- Two valve springs, one for each valve, positioned vertically above the rocker arms.
- Two valve guides, one for each valve, positioned vertically above the valve stems.
- Two valve seals, one for each valve, positioned horizontally above the valve guides.
- Two valve retainers, one for each valve, positioned horizontally above the valve seals.
- Two valve retainers, one for each valve, positioned horizontally above the valve seals.
- Two valve retainers, one for each valve, positioned horizontally above the valve seals.

CYLINDER HEADS

ENGINE	PART #	DESCRIPTION
D315	FP-1H7657	CASTING # 7F3784
D318	FP-1H7659	CASTING # 7F7878
D330A	FP-2S9004 ✓	CASTING # 2S9000
D330B	FP-2S9004 ✓	CASTING # 2S9000
D330C	FP-7S7070 ✓	CASTING # 7L0568
D333A	FP-5S1884 ✓	CASTING # 5S1880
D333B	FP-5S1884 ✓	CASTING # 5S1880
D333C	FP-1P4303 ✓	CASTING # 1P4302
D334	FP-5S8048	CASTING # 3S7707
D336	FP-5S2970	CASTING # 5S2989
D339	FP-4N7000 ✓	CASTING # 1M2960
D342	FP-5N8501 ✓	DP CASTING # 7N3503
	FP-8N6004 ✓	NDP CASTING # 8H5980
D343	FP-4N6765 ✓	CASTING # 9S3000
D346A	FP-7M4915	CASTING # 5M8800
D346B	FP-7N9297	CASTING # 7N9295
D348	FP-7N9532	CASTING # 7N9540
D349	FP-7N9304	CASTING # 7N9302
D353	FP-7N3630 ✓	DP CASTING # 7N3031
	FP-7N6340 ✓	NDP CASTING # 8N4232
D379	FP-7L0138	CASTING # 6L7200
	FP-5N8319	CASTING # 5N5280
D398	FP-7L0138	CASTING # 4L3800
	FP-5N8319	CASTING # 5N5280
D399	FP-7L0138	CASTING # 6L7200
	FP-5N8319	CASTING # 5N5280
1140	FP-7C2320	CASTING # 7C2295
1145	FP-7C2320	CASTING # 7C2295

NOTE: ALL CYLINDER HEADS INCLUDE GUIDES AND SEATS.

✓ FP DIESEL STOCK ITEM.

ENGINE	PART #	DESCRIPTION
1150	FP-7C2320	CASTING # 7C2295
1160	FP-7C2320	CASTING # 7C2295
1673	FP-5S1884 ✓	CASTING # 5S1880
1673C	FP-1P4303 ✓	CASTING # 1P4302
1674	FP-5S8048	CASTING # 3S7707
1676	FP-5S2970	CASTING # 5S2989
1693	FP-4N6765 ✓	CASTING # 9S0003
3145	FP-7C2320	CASTING # 7C2295
3150	FP-7C2320	CASTING # 7C2295
3160	FP-7C2320	CASTING # 7C2295
3204	FP-7C2320	CASTING # 7C2295
3208	FP-7C2320	CASTING # 7C2295
3304	FP-8N1188 ✓	PC CASTING # 7N8514
	FP-1N4304 ✓	DI CASTING # 7C4004
3306	FP-8N1187 ✓	PC CASTING # 7N8516
	FP-8N6786 ✓	DI CASTING # 7N8856
3406	FP-7W0010 ✓	PC CASTING # 7W0008
	FP-7W0008 ✓	DI CASTING # 7W0007
3408	FP-7N0858 ✓	PC CASTING # 7N0855
	FP-7W2225	DI CASTING # 7W2222
3412	FP-7N0848	PC CASTING # 7N0845
	FP-7W2243	DI CASTING # 7W2242
3508	FP-7W1063	EARLY CASTING # 7W2231
	FP-7E5859	LATE CASTING # 7W2235
3512	FP-7W1063	EARLY CASTING # 7W2231
	FP-7E5859	LATE CASTING # 7W2235
3516	FP-7W1063	EARLY CASTING # 7W2231
	FP-7E5859	LATE CASTING # 7W2235

CONNECTING RODS

ENGINE	PART #	DESCRIPTION	CASTING #	BUSHING	ROD BOLTS	NUTS
3208	FP-7E4728	TAPERED ROD	FP-1W2258	FP-9N5082	FP-9N3832	FP-9L7669
3208	FP-9N0407	STRAIGHT ROD	FP-9N0406	FP-8N0701	FP-9N3832	FP-9L7669
D330C/3304/3306	FP-8N1721	STRAIGHT ROD 1.70"	FP-8N1720	FP-8N1849	FP-1P9956	FP-5S6348
D330C/3304/3306	FP-8N1984	STRAIGHT ROD 1.50"	FP-8N1720	FP-8N0702	FP-1P9956	FP-5S6348
D339 / D342	FP-4S6867	STRAIGHT ROD	FP-4S6866	FP-4M9183	FP-9S8493	FP-1A5660

ALL CONNECTING RODS ARE NEW

REFER TO CAT® PARTS BOOK FOR PROPER APPLICATION.

SPECIAL GASKET SETS

ENGINE	PART NUMBER	NOTES
D342	PGB0342	REPLACES: FP-6V4764 FP-6V4771 FP-6V4775 FP-6V4785 FP-6V4772 FP-6V4757
1693	PGB1693	REPLACES: FP-5P8873 FP-5P8785 FP-5P8786
3304	PGB3304	REPLACES: FP-5P9414 FP-6V0600 FP-6V0601 FP-6V0602 FP-6V0603
3306	PGB3306	REPLACES: FP-5P8766 FP-5P9562 FP-5P9561 FP-6V0715 FP-6V0712
3406	PGB3407	REPLACES: FP-6V6403 FP-6V9722 FP-5P8431 FP-5P8321
D353 (D9)	PGB3090V	VALVE GRIND SET FOR ALL D 9'S WITH SPACER PLATE ENGINES.

SPECIAL GASKET SETS

MODEL	TYPE	DESCRIPTION	PART #
1180-3180	TRUCK & INDUSTRIAL	COMPLETE OVERHAUL	PGE0050
3204	VEHICULAR	HEAD SET	PGE3204
3208	TRUCK & INDUSTRIAL	COMPLETE OVERHAUL	PGE0051
	**NON-TURBO	IN-FRAME OVERHAUL	PGE0054
		MULTIPLE HEAD SET	PGE0053
	**TURBO	COMPLETE OVERHAUL	PGE0061
		IN-FRAME OVERHAUL	PGE0062
		MULTIPLE HEAD SET	PGE0063
	**NON-TURBO	COMPLETE OVERHAUL	PGE0075
	MARINE	MULTIPLE HEAD SET	PGE0077
	**TURBO	COMPLETE OVERHAUL	PGE0071
		MULTIPLE HEAD SET	PGE0073
3304	INDUSTRIAL SPACER & TURBO	HEAD SET	PG0133
1693	SPACER	COMPLETE OVERHAUL	PG1693C
		IN-FRAME OVERHAUL	PG1693IF
		VALVE GRIND SET	PG1693VG
ALL 1693'S	6 SETS OF LINER O'RINGS & BANDS		FP-5P8789-6
3306	78R NOZZLE	COMPLETE OVERHAUL	PGE0301
	INJECTOR	IN-FRAME OVERHAUL	PGE0302
	PC	VALVE GRIND SET	PGE0303
	TRUCK, COUNTERBORE (78R274-3473)	IN-FRAME OVERHAUL	PGE0304
	TRUCK, SPACER DI	COMPLETE OVERHAUL	PGE0306
	63Z PENCIL	IN-FRAME OVERHAUL	PGE0307
	INJECTOR	VALVE GRIND SET	PGE0308
63306	NATURAL GAS	COMPLETE OVERHAUL	PGE3306NG
		FOR COUNTERBORE	
3406A	TRUCK (S/N 92U5944 UP)	COMPLETE OVERHAUL	PGE0081
		IN-FRAME OVERHAUL	PGE0082
		VALVE GRIND SET	PGE0308

SPECIAL GASKET SETS

MODEL	TYPE	DESCRIPTION	PART #
3406A	TRUCK (S/N 92U1-5943)	COMPLETE OVERHAUL IN-FRAME OVERHAUL	PGE0084 PGE0085
3406B	TRUCK EARLY 7FB & 4MG	COMPLETE OVERHAUL IN-FRAME OVERHAUL	PGE0091 PGE0092
3406B	TRUCK EARLY 7FB & 4MG	VALVE GRIND SET	PGE0093
3406B ATAAC	TRUCK LATE 4MG (LOWER SPACER PLATE)	COMPLETE OVERHAUL IN-FRAME OVERHAUL VALVE GRIND SET	PGE0101 PGE0102 PGE0103
ALL 3406'S	ALL 3406'S	6 SETS OF LINER O RINGS & BANDS-PGE0100 USE	FP-5P8057-6
3408	TRUCK (S/N 28V1-427)	COMPLETE OVERHAUL IN-FRAME OVERHAUL MULTIPLE CYLINDER HEAD	PGE0151 PGE0152 PGE0153
3408	TRUCK (SN 28V428-948)	COMPLETE OVERHAUL	PGE0155
3408	TRUCK (S/N 28V949 & UP	COMPLETE OVERHAUL IN-FRAME OVERHAUL MULTIPLE CYLINDER HEAD	PGE0156 PGE0157 PGE0158
3412	VEHICULAR & INDUSTRIAL	IN-FRAME OVERHAUL	PGE3412
3500	MARINE, INDUSTRIAL & GEN. SETS	SINGLE CYLINDER HEAD SET	PGE3500V
G333	NATURAL GAS	REPLACES 9S4001C COMPLETE OVERHAUL	PGE006
D342	SPACER PLATE	COMPLETE OVERHAUL@ VALVE GRIND SET	D342MN PGED342SP
	COUNTERBORE	COMPLETE OVERHAUL@ VALVE GRIND SET	D342MV PGED342CB
G342	NATURAL GAS (S/N 71B2671 & UP)	COMPLETE OVERHAUL	PGE342NG
	SPACERPLATE	VALVE GRIND SET	PGE342SP
	COUNTERBORE	VALVE GRIND SET	PGE342CB
D353	MARINE SPACER	COMPLETE OVERHAUL	PG353MC
D398	MILITARY (S/N 34J & UP)	COMPLETE OVERHAUL	PG398CM
D379 D398	CYLINDER BLOCK SET FOR IN-FRAME OVERHAULS, USE WITH APPROPRIATE & CORRECT NUMBER OF HEAD SETS	MARINE OR INDUSTRIAL MARINE OR INDUSTRIAL	PGE379 PGE398
D399		MARINE OR INDUSTRIAL	PGE399
		DUPLEX FUEL GASKET SET DUPLEX OIL GASKET SET	PG398FL PG398OL
D379 D398 D399	COMPLETE HEAD SETS TO INSTALL ONE ASSEMBLED HEAD. CONTAINS FERRULES RUBBERS AND MANIFOLD GASKETS.	MARINE OR INDUSTRIAL (FOR OLD STYLE ENGINE W/ CAST IRON MANIFOLD) INDUSTRIAL (FOR LATER STYLE INDUSTRIAL ENGINE USING HOT HEAT SHIELD MANIFOLDS) MARINE (FOR LATER STYLE MARINE ENGINE USING FABRICATED WATER COOLED MANIFOLDS)	PGE017 PGE004 PGE005
G379, 398, 399	NATURAL GAS ENGINES	SAME AS ABOVE	PGE018
D399	(S/N 38Z)	COMPLETE OVERHAUL	PGD399OH
D3	3204 ENGINE S/N 45V1 & UP	IN-FRAME OVERHAUL	PGIFK3204
D4C	D330 ENGINE S/N 78A1 & UP, 85A, 86A, 88A, 18J1 & UP	COMPLETE OVERHAUL	PGED4C
D7G	3306 ENGINE S/N 44V & 3N COUNTERBORE	IN-FRAME OVERHAUL	PG6V1333-1F
	3306 ENGINE S/N 44V & 3N SPACERPLATE	IN-FRAME OVERHAUL	PG6V2531-1F
D8K	D342 SPACER PLATE	BASIC OVERHAUL	PGD8K

@ INCLUDES LINER SEALS

SPECIAL GASKET SETS

MODEL	TYPE	DESCRIPTION	PART #
D8K, 77V	D342 PC 17S NON SPACER	COMPLETE OVERHAUL	FP-5P4339
D9H, 90V	SPACER PLATE (D353) 97U7922 UP	COMPLETE OVERHAUL VALVE GRIND SET	PG3091C+ PG3090V
D9G, 88A	NON SPACER PLATE (D353) 66A	COMPLETE OVERHAUL VALVE GRIND SET	PG3091C+ FP-2P3090
D9L, 14Y	3412 DI 73W	COMPLETE OVERHAUL	PGD9L+
631D, 637D 24W, 26 & 72W	SCRAPER (3408) PC & DI 48W	COMPLETE OVERHAUL	PG6249C
773, 63G	TRUCK (D346) 73X	COMPLETE OVERHAUL	PGE544
773B, 63W	TRUCK (3412) DI 73W	COMPLETE OVERHAUL	PG773B+
777, 84A	TRUCK (D348) 98S WITH SPIN ON OIL FILTERS	COMPLETE OVERHAUL VALVE GRIND SET	PG777C PG777VG
95D, 31R, 63R, 65R, & 22Z	3304, D1T, 7Z, & 12Z	VALVE GRIND SET	PG0133
960B	3304 ENGINE SPACERPLATE	COMPLETE OVERHAUL	PGT950B
963	3204 ENGINE	COMPLETE OVERHAUL	PGT953
966	3306 ENGINE SPACERPLATE	COMPLETE OVERHAUL	PGT966D
988B 50W	LOADER (3408) PC & DI 48W 950 UP	COMPLETE OVERHAUL	PG6654C
988C, 87A1 & UP	LOADER (D343) 52K	COMPLETE OVERHAUL	PGE988C
992, 48Z, 42X	LOADER (3412) 73W	COMPLETE OVERHAUL	PG992C+
12MG	S/N 99E1 & 21F1	COMPLETE OVERHAUL	PGE012C

(+ NO LINER O-RINGS INCLUDED)

FUEL SETS

ENGINE	TYPE	DESCRIPTION	PART #
3208	TRUCK, INDUSTRIAL GENERATOR & MARINE	FUEL PUMP MOUNTING SET	FPG3208
3304 & 3306	SLEEVE METERING TRUCK, INDUSTRIAL GENERATOR & MARINE	UNIVERSAL FUEL PUMP GASKET SETS	FPG3300SM
3304	SCROLL TYPE TRUCK, INDUSTRIAL GENERATOR & MARINE (DOES NOT INCLUDE S/N'S 2B, 4B, 5B, WITH ARRANGEMENT #'S 3N3205, 3N3207, 3N3208, 3N5410, 3N6705 & 3N6707)	UNIVERSAL FUEL GASKET SET	FPG3304
3306	SCROLL TYPE TRUCK, INDUSTRIAL GENERATOR & MARINE	UNIVERSAL FUEL GASKET SET SET	FPG3306
3406A	TRUCK, INDUSTRIAL GENERATOR & MARINE	UNIVERSAL FUEL GASKET SET	FPG3406-A
3406B	TRUCK, INDUSTRIAL GENERATOR & MARINE (DOES NOT INCLUDE S/N 8TC)	UNIVERSAL FUEL GASKET SET	FPG3406B
3408	TRUCK, INDUSTRIAL GENERATOR & MARINE	UNIVERSAL FUEL GASKET SET	FPG3408
3412	TRUCK, INDUSTRIAL GENERATOR & MARINE	UNIVERSAL FUEL GASKET SET	FPG3412

O RING SETS (SUIT CASE STYLE)

PART NUMBER	MATERIAL	DESCRIPTION
PG0057	NITRILE	54 SIZES / 223 PIECES
PG0157	SILICONE	54 SIZES / 223 PIECES
PG1157	COMBINATION NITRILE & SILICONE	54 SIZES / 223 PIECES
FP-4C4782	NITRILE O RINGS FOR USE WITH XT-3, O RING FACE SEAL & O RING BOSS CONNECTIONS	32 SIZES / 580 PIECES
FP-4C4784	NITRILE D RINGS FOR USE WITH XT-5 & XT6 FLANGE CONNECTIONS	9 SIZES / 80 PIECES
FP-4C4786	NITRILE O RINGS FOR USE WITH AIR CONDITIONING FITTINGS	7 SIZES / 85 PIECES
FP-4C5858	NITRILE O RINGS FOR USE WITH FACE SEAL HOSE COUPLING & ADAPTER FITTINGS	8 SIZES / 120 PIECES
FP-4C8253	SILICONE O RINGS FOR USE WITH HOSE COUPLINGS, ENGINES & TRANSMISSIONS	32 SIZES / 149 PIECES

OIL PAN SETS

ENGINE	TYPE	DESCRIPTION	PART NUMBER
3208	ALL 3208 ENGINES	OIL PAN SET	FP-3208PS
3304	ALL 3304 ENGINES	OIL PAN SET	FP-3304PS
3306	FOR ALL 3306 ENGINES WITH THE EXCEPTION OF LATE STYLE TRUCKS WITH LOWER PLATE	OIL PAN SET	FP-3306PS
3306	FOR 3306 ENGINES LATE STYLE WITH LOWER PLATE	OIL PAN SET	FP-3306PST
3406	ENGINE WITH LOWER PLATES REQUIRE 2 EACH		FP-4N1151-8
3408	ENGINE WITH LOWER PLATES REQUIRE 2 EACH		FP-4N1151-8

CHEMICALS

PART NUMBER	DESCRIPTION	CASE QUANTITY
FP-7M7260	LIQUID GASKET - 11 OZ.	12
FP-5H2471	CONTACT CEMENT - 11 OZ.	6
FP-5P3931	ANTI-SEIZE - 40 OZ.	N/A
FP-4C5599	ANTI-SEIZE - 8 OZ.	N/A
FP-7M7456	BEARING MOUNT - 50 ML.	N/A
FP-9S3263	THREAD LOCK - 50 ML.	N/A
FP-4C9500	QUICK CURE PRIMER - 6 OZ.	12
FP-5P3413	PIPE SEALANT - 50 ML.	N/A
FP-1U8846	GASKET MAKER FLEXIBLE - 50 ML.	N/A
FP-4C9614	RED RTV SILICONE - 3 OZ.	N/A
FP-1U8265	PENETRATING OIL - 16 OZ.	12
FPC1321	SPRAY GASKET SEALER - 12 OZ.	12
FPC1326	GASKET REMOVER - 16 OZ.	12
FPC1324	CLEANER / DEGREASER - 16 OZ.	12
FPC1322	MAXI-COAT - 16 OZ.	12

CYLINDER LINER O-RING KITS

ENGINE	BORE	1 CYL	4 CYL	6 CYL	8 CYL
D330, D333, D334, 1673, 3300	4.75	FP-5P8768	FP-5P8768-4	FP-5P8768-6	
D343, D346, D348, 1693, 777	5.40	FP-5P8789		FP-5P8789-6	FP-5P8789-8
3400 SERIES	5.40	FP-1183732		FP-1183732-6	FP-1183732-8
D339, D342, D397, D7, D8	5.75	FP-5P9221	FP-5P9221-4	FP-5P9221-6	
D353, D379, D398, D399	6.25	FP-5P8970		FP-5P8970-6	FP-5P8970-8

IN-FRAME ENGINE KITS

ENGINE	PART NUMBER
D342	IFK-D342
D379	IFK-D379*
G379	IFK-G379*
D398	IFK-D398*
G398	IFK-G398*
D399	IFK-D399*

ENGINE	PART NUMBER
G399	IFK-G399*
1160	IFK-1160
1693	IFK-1693
3204	IFK-3204
3208	IFK-3208
3304	IFK-3304

ENGINE	PART NUMBER
3306	IFK-3306
3406	IFK-3406
3408	IFK-3408
3412	IFK-3412
*DOES NOT INCLUDE PAN GASKET OR MAIN BEARINGS.	

HOW TO ORDER AN IN-FRAME KIT

SAMPLE IN-FRAME KIT BILL OF MATERIAL - ENGINE MODEL 3406

STEP 1-DETERMINE WHICH CYLINDER KIT IS REQUIRED.

CYLINDER KIT	PART NUMBER	NOTE:
	1) (6) LK4004	TO SELECT THE APPROPRIATE CYLINDER KIT, FIND YOUR ENGINE MODEL IN THE ENGINE SECTION (ENGINES ARE LISTED IN ALPHA / NUMERIC ORDER) THEN DETERMINE THE PROPER LINE NUMBER (FAR RIGHT COLUMN) BASED ON YOUR ENGINE INFORMATION.
	2) (6) LK3724	
	3) (6) LK3509	
	4) (6) LK9889	
	5) (6) LK7212	
	6) (6) LK0931	
	7) (6) LK3116	
	8) (6) LK3511	
	9) (6) LK3633	
	10) (6) LK4080	
	11) (6) LK4126	

STEP 2-DETERMINE WHICH MAIN BEARINGS ARE REQUIRED.

MAIN BEARINGS	PART NUMBER	NOTE:
STD.	1) (7) FP-4W5492	SELECT THE BEARINGS REQUIRED BASED ON THE SIZE OF YOUR CRANKSHAFT. IF YOUR ENGINE HAS MORE THAN ONE OPTION FOR BEARINGS, REFER TO SECTION 4 WITH YOUR ENGINE SERIAL AND ARRANGEMENT NUMBER FOR THE APPROPRIATE LINE NUMBER.
.025"	2) (7) FP-4W5698	
.050"	3) (7) FP-4W5699	

STEP 3-DETERMINE WHICH ROD BEARINGS ARE REQUIRED.

ROD BEARINGS	PART NUMBER	NOTE:
STD.	1) (6) FP-9Y9497	SELECT THE BEARINGS REQUIRED BASED ON THE SIZE OF YOUR CRANKSHAFT. IF YOUR ENGINE HAS MORE THAN ONE OPTION FOR BEARINGS, REFER TO SECTION 4 WITH YOUR ENGINE SERIAL AND ARRANGEMENT NUMBER FOR THE APPROPRIATE LINE NUMBER.
.025"	2) (6) FP-4W5702	
.050"	3) (6) FP-4W5703	

STEP 4-DETERMINE WHICH THRUST WASHER IS REQUIRED.

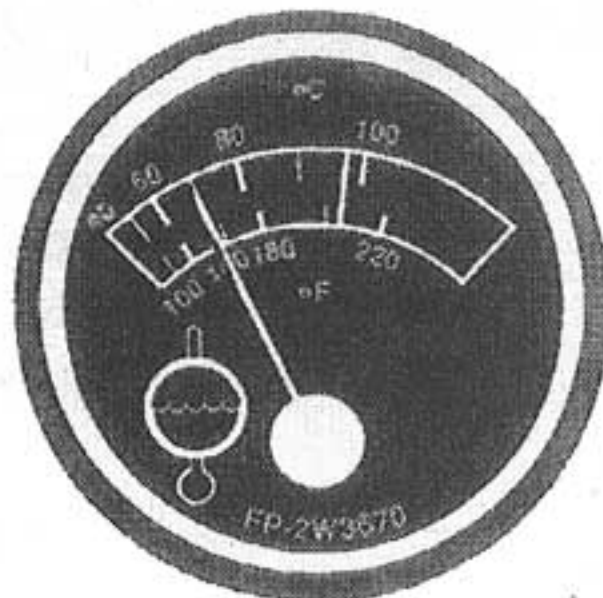
THRUST WASHER	PART NUMBER
	1) (2) FP-7E9262

STEP 5-DETERMINE WHICH GASKET SET IS REQUIRED.

GASKET SET	PART NUMBER	DESCRIPTION	NOTE:
	1) (1) PGE0082	3406A S/N 92U5944 & UP TRUCK	IF YOUR ENGINE SERIAL NUMBER IS NOT COVERED HERE, REFER TO FP DIESEL /PHILLIPS GASKET CATALOG P/N FP-CA0020, OR CONTACT ONE OF OUR SALES REPRESENTATIVES.
	2) (1) PGE0092	3406B S/N EARLY 7FB & 4MG TRUCK	
	3) (1) PGE0102	3406B LATE 4MG W/LOWER SPACER	

MECHANICAL TEMPERATURE GAUGES

ALL TEMPERATURE GAUGES ARE SUPPLIED WITH 5/8" X 18 UNF FITTINGS.



WATER TEMPERATURE

PART NUMBER	CAPILLARY LENGTH	RANGE
FP-2W0417	39"	100°F - 250°F / 40°C - 120°C
FP-1W5928	79"	100°F - 250°F / 40°C - 120°C
FP-1W2864	102"	100°F - 250°F / 40°C - 120°C
FP-1W5927	158"	100°F - 250°F / 40°C - 120°C
FP-1W0697	158"	100°F - 250°F / 40°C - 120°C
FP-1W7550	197"	100°F - 250°F / 40°C - 120°C
FP-1W7551	197"	100°F - 250°F / 40°C - 120°C
FP-1W5170	102"	100°F - 250°F / 40°C - 120°C
FP-2W3670	59"	100°F - 250°F / 40°C - 120°C
FP-4S8409	79"	100°F - 270°F / 40°C - 130°C
FP-8S4915	102"	100°F - 270°F / 40°C - 130°C

TRANSMISSION OIL TEMPERATURE

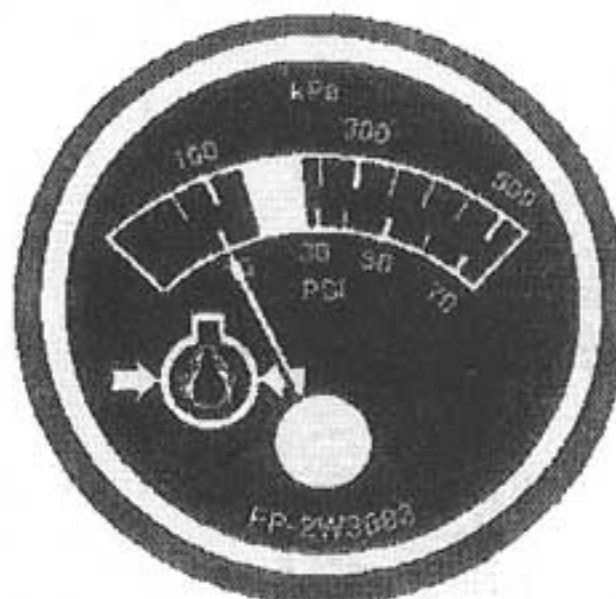
PART NUMBER	CAPILLARY LENGTH	RANGE
FP-9M9378	59"	120°F - 300°F / 50°C - 150°C
FP-1W0701	79"	120°F - 300°F / 50°C - 150°C
FP-1W0704	102"	120°F - 300°F / 50°C - 150°C
FP-1W0702	118"	120°F - 300°F / 50°C - 150°C
FP-4D1848	158"	120°F - 300°F / 50°C - 150°C
FP-1W3293	102"	120°F - 300°F / 50°C - 150°C

LIGHT KITS

PART NUMBER	VOLTAGE	
FP-00005	12 VDC	FOR 52MM MECHANICAL GAUGES
FP-00006	24 VDC	FOR 52MM MECHANICAL GAUGES

MECHANICAL PRESSURE GAUGES*

ALL PRESSURE GAUGES ARE SUPPLIED WITH 1/8" X 27 NPTF FITTINGS.



FUEL PRESSURE

PART NUMBER		RANGE
FP-1W0703		0-30 PSI 0-2 BAR
FP-1W0706		0-30 PSI 0-2 BAR
FP-1W0707		0-30 PSI 0-2 BAR
FP-1W7554		0-30 PSI 0-2 BAR
FP-3H3344		0-15 PSI 0-1 BAR

OIL PRESSURE

PART NUMBER		RANGE
FP-1W0705		0-40 PSI 0-3 BAR
FP-1W5353		0-15 PSI 0-1 BAR
FP-2W3683		0-70 PSI 0-5 BAR

TRANSMISSION OIL PRESSURE

PART NUMBER		RANGE
FP-2W3684		0-300 PSI 0-20 BAR

WATER PRESSURE

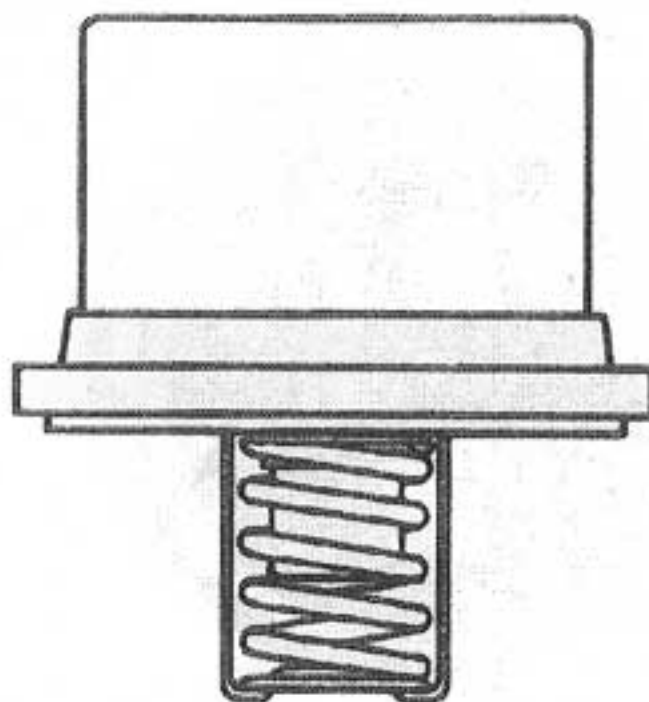
PART NUMBER		RANGE
FP-3S4131		0-15 PSI 0-1 BAR

AIR PRESSURE

PART NUMBER		RANGE
FP-1W0708		0-150 PSI 0-10 BAR

*SEE PAGE 144 FOR LIGHT KITS.

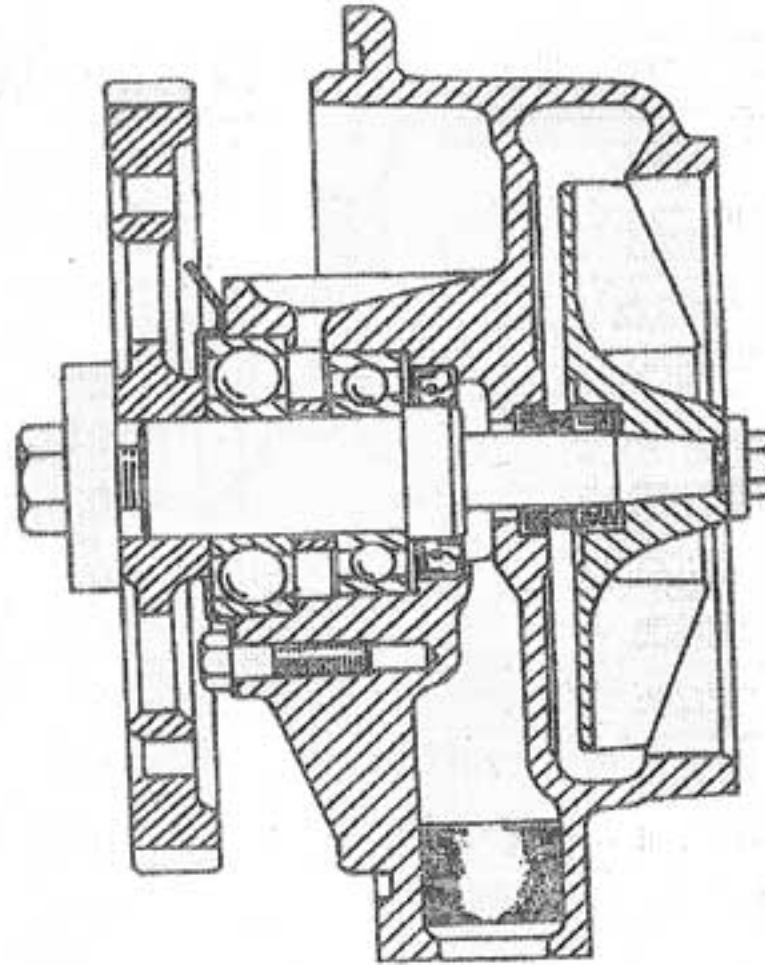
THERMOSTATS



ENGINE	PART NUMBER	NOTES
D315	FP-2S4044	170 DEGREES
D318	FP-2S4044	170 DEGREES
D330A	FP-9S3808	170 DEGREES
D330B	FP-9S3808	170 DEGREES
D330C	FP-4W4011	170 DEGREES
D333A	FP-9S3808	170 DEGREES
D333B	FP-9S3808	170 DEGREES
D333C	FP-4W4011	170 DEGREES
D334	FP-4W4011	170 DEGREES
D336	FP-9S3808	170 DEGREES
D342	FP-9S3808	170 DEGREES
D343	FP-4W4011	170 DEGREES
D348A	FP-4W4011	170 DEGREES
D348B	FP-4W4011	170 DEGREES
D348	FP-9N2894	180 DEGREES
D348	FP-4W4011	170 DEGREES
D349	FP-9N2894	180 DEGREES
D349	FP-4W4011	170 DEGREES
D353	FP-4W4011	170 DEGREES
D379	FP-4W4011	170 DEGREES
D398	FP-9N2894	180 DEGREES
D399	FP-9N2894	180 DEGREES
1140	FP-4N6959	180 DEGREES
1145	FP-4N6959	180 DEGREES
1150	FP-4N6959	180 DEGREES
1160	FP-4N6959	180 DEGREES
1673	FP-4W4011	170 DEGREES

ENGINE	PART NUMBER	NOTES
1673C	FP-4W4011	170 DEGREES
1674	FP-4W4011	170 DEGREES
1676	FP-4W4011	170 DEGREES
1693	FP-4W4011	170 DEGREES
3145	FP-4N6959	180 DEGREES
3150	FP-4N6959	180 DEGREES
3160	FP-4N6959	180 DEGREES
3204	FP-4N0236	180 DEGREES
3208	FP-9N5121	180 DGRS WHEN 2 USED
3208	FP-4W4794	180 DGRS WHEN 1 USED
3208	FP-1028392	180 DEGREES
3304	FP-1118010	175 DEGREES
3306	FP-1118010	175 DEGREES
3306 NG	FP-1167577	190 DEGREES
3406	FP-4W4794	180 DEGREES
3406	FP-7C3095	190 DEGREES
3406 NG	FP-9Y7022	210 DEGREES
3408	FP-4W4794	180 DEGREES
3408	FP-7C3095	190 DEGREES
3412	FP-4W4011	170 DEGREES
3412	FP-4W4794	180 DEGREES
3508	FP-4W4794	180 DEGREES
3512	FP-4W4794	180 DEGREES
3516	FP-4W4794	180 DEGREES
3508	FP-7W0371	202 DEGREES
3512	FP-7W0371	202 DEGREES
3516	FP-7W0371	202 DEGREES

WATER PUMPS, REPAIR KITS & COMPONENTS



ENGINE	WATER PUMP	REPAIR KIT	IMPELLER	SHAFT	OIL SEAL	SEAL ASSY	BEARINGS
D330	FP-2S1678/3L8829	FP-1W7074*	FP-4L2116	FP-4L2178	N/A	FP-1N9177	FP-6B0924/7F9993
D342	FP-6N6015 ✓	FP-1W7029 #	FP-7M5692	FP-6N5987	FP-4H9838	FP-6N9313	FP-8H9789/2L5271
D343	FP-2S7209	FP-1W7077 #	FP-8M6561	FP-2P1397	FP-5M9737/7B2174	FP-4N7526	FP-1B3867/2L5271
D353	FP-6N6424 ✓	FP-1W7042 #	FP-8N6423	FP-6N6422	FP-7M4236	FP-9N9313	FP-2H8726/3H8771
D330C	FP-2P0662 ✓	FP-1W7046 * ✓	FP-6N8411	FP-1P9929	FP-8S8821/8H9520	FP-6N9312	FP-8H9789/6H3957
D330C / D333C	FP-1W3060 ✓	FP-1W7053 * ✓	FP-7N5910	FP-7N5899	FP-8V3988/8S8821	FP-6N9312	FP-8H9789/6H3957
D379 / D396	FP-4L8800	FP-1W7081 #	FP-5L8203/7L0104	FP-5N4378	FP-5H6012/2N2560	FP-4N7526	FP-4L3756/5L2660
D399	FP-6L8983	FP-1W7080 *	FP-7L0103	FP-5N4378	FP-2N2560	FP-4N7526	FP-4L3756/5L2660
1140	FP-9L7660	FP-9N3139 + ✓	FP-7C5479	FP-9L7493	N/A	FP-2W4390	FP-9L7493
1145	FP-9L7660	FP-9N3139 + ✓	FP-7C5479	FP-9L7493	N/A	FP-2W4390	FP-9L7493
1150	FP-9L7660	FP-9N3139 + ✓	FP-7C5479	FP-9L7493	N/A	FP-2W4390	FP-9L7493
1160	FP-9L7660	FP-9N3139 + ✓	FP-7C5479	FP-9L7493	N/A	FP-2W4390	FP-9L7493
3145	FP-9L7660	FP-9N3139 + ✓	FP-7C5479	FP-9L7493	N/A	FP-2W4390	FP-9L7493
3150	FP-9L7660	FP-9N3139 + ✓	FP-7C5479	FP-9L7493	N/A	FP-2W4390	FP-9L7493
3160	FP-9L7660	FP-9N3139 + ✓	FP-7C5479	FP-9L7493	N/A	FP-2W4390	FP-9L7493
3208	FP-2W1225 ✓	FP-6V6894 + ✓	FP-2W3535	FP-7N3078	N/A	FP-2W0712	(2) FP-5P7807
3304 / 3306	FP-2P0661 ✓	FP-1W7050 #	FP-6N8411	FP-1P9929	FP-8S8821/8H9520	FP-6N9312	(2) FP-6H3957
3304 / 3306	FP-2P0662 ✓	FP-1W7046 * ✓	FP-6N8411	FP-1P9929	FP-8S8821/8H9520	FP-6N9312	FP-8H9789/6H3957
3304 / 3308	FP-1W3060 ✓/2W8002 ✓	FP-6V9928 *	FP-7N5910	FP-2W7255	FP-8C5210	FP-4W3864	(2) FP-6H3957
3304 / 3308	FP-3N2850	FP-1W7043 #	FP-6N8411	FP-1P9929	FP-8S8821/8H9520	FP-6N9312	(2) FP-6H3957
3304 / 3308	FP-8N9030/7N5908	FP-1W7052 * ✓	FP-7N5910	FP-7N5899	FP-8S8821/8H9520	FP-6N9312	(2) FP-6H3957
3306	FP-1W3060 ✓/7N5909	FP-1W7073 *	FP-7N5910	FP-7N5899	FP-8S8821/8H9520	FP-6N9312	FP-8H9789/6H3957
3406	FP-7C4957 ✓	FP-9N6289 * ✓	FP-7C5479	FP-7W1821	FP-8C3100	FP-1010700	FP-1B3867/2L5271
3408	FP-4N7498 ✓	FP-9N6289 * ✓	FP-7C5479	FP-7W1821	FP-8C3100	FP-1010700	FP-1B3867/2L5271
3412	FP-4N7657 ✓	FP-9N6289 * ✓	FP-7C5479	FP-7W1821	FP-8C3100	FP-1010700	FP-1B3867/2L5271
3508	FP-1220501	N/A	FP-2W9724	FP-2W9723	FP-2P6286/6N5475	FP-6N9313	N/A
3512	FP-1220500	N/A	FP-2W9727	FP-2W9723	FP-8C5238	FP-1245245	N/A
3516	FP-1220500	N/A	FP-2W9727	FP-2W9723	FP-8C5238	FP-1245245	N/A

REFER TO CAT® ENGINE PARTS BOOK FOR PROPER APPLICATION.

* DOES NOT INCLUDE IMPELLER OR SEALS.

INCLUDES IMPELLER, NO SEALS.

+ CONTAINS GASKETS, SHAFT, BEARING & SEAL ASSY.

✓ FP DIESEL STOCK ITEM.

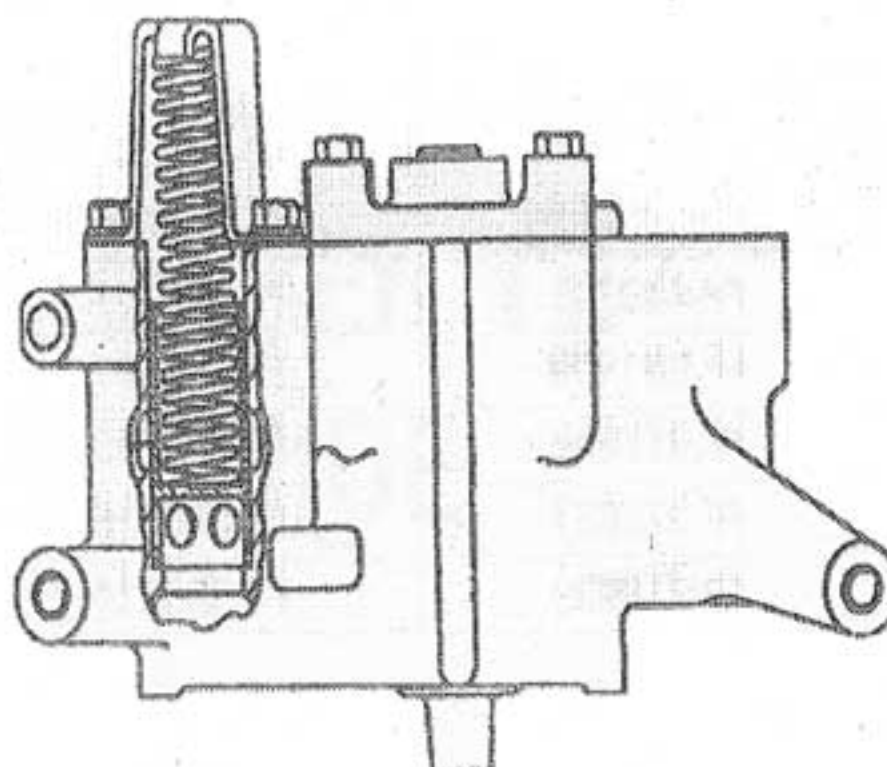
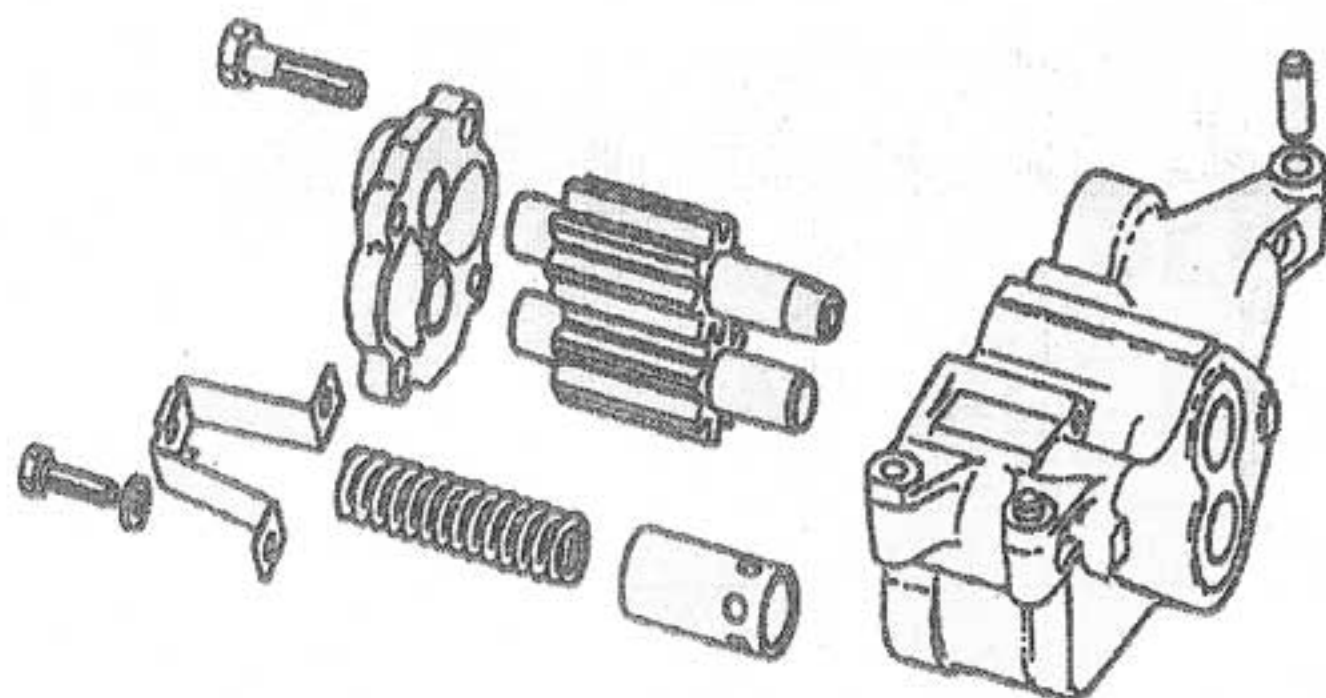
OIL COOLER CORES

ENGINE	PART NO.
3208	FP-7W1762
3304	FP-1W0220 ✓
3304	FP-1W0222 ✓
3306	FP-4W7188 ✓
3306	FP-7N0185 ✓
3306	FP-4W5363 ✓
3306	FP-7N3521 ✓
3406	FP-7W0205 ✓
3408	FP-7W0205 ✓
3408	FP-9N5526 ✓
3408	FP-7C3039 ✓
3412	FP-9N5526 ✓
3412	FP-7C3039 ✓
3406	FP-7C3039 ✓
3406C	FP-6N9245 ✓
3406C	FP-6N9761 ✓
D330C	FP-7N0128 ✓
D330C	FP-1W0219 ✓
D330C	FP-7N0185 ✓
D333	FP-7N8668 ✓
D333	FP-7N0113 ✓
D333C	FP-7N0128 ✓
D333C	FP-6N9851 ✓
D333C	FP-7N0110 ✓
D333C	FP-8N4363 ✓
D333C	FP-1W0223 ✓
D333C	FP-1W0225 ✓

ENGINE	PART NO.
D333C	FP-4W7188 ✓
D333C	FP-7N0185 ✓
D336	FP-4W5363 ✓
D339	FP-7N0128 ✓
D339	FP-6N9653 ✓
D342	FP-7N0113 ✓
D342	FP-7N0101 ✓
D343	FP-6N9213 ✓
D343	FP-6N9220 ✓
D343	FP-6N9670 ✓
D343	FP-7N0101 ✓
D343	FP-7W0205 ✓
D346	FP-6N9209 ✓
D346	FP-7W0205 ✓
D346	FP-4W6428 ✓
D346	FP-9N5526 ✓
D348	FP-4W6428 ✓
D348	FP-9N5526 ✓
D349	FP-4W6428 ✓
D353	FP-6N9654 ✓
D379	FP-4W5550 ✓
D398	FP-4W5549 ✓
D399	FP-4W5551 ✓
G343	FP-6N9213 ✓
G379	FP-4W5550 ✓
G398	FP-4W5549 ✓
G399	FP-4W5551 ✓

REFER TO CAT® ENGINE PARTS BOOK FOR PROPER APPLICATION.
 ✓ FP DIESEL STOCK ITEM.

OIL PUMP GROUP



ENGINE	PUMP #
D315,D330C,D333C,3306	FP-7S7602 ✓
D320,D330,D333	FP-3S2616 ✓
D330,D330C,D333C,3304	FP-7S4829
D330,D333C	FP-6N2792 ✓
D330C,D333C	FP-6N2821 ✓
D330C,D333C	FP-4S8660 ✓
D330C,D333C	FP-5S7863 ✓
D333,D333C	FP-6N2815 ✓
D333,D333C	FP-3S4386 ✓
D333,D333C	FP-7S6875 ✓
D333C	FP-9S6590 ✓
D333C	FP-5M7864 ✓
D330,D330C,3304	FP-3G4768 ✓
D330,D330C,3304	FP-7G5301 ✓
D333C,3306	FP-5M1670 ✓
D333C,3306	FP-2S9535 ✓
D339	FP-7G3815 ✓
D339	FP-9S6788 ✓
3208 ROTOR ASSY.	FP-9N3207 STD. ✓
3208 ROTOR ASSY.	FP-9N5569 HIGH VOLUME ✓

REFER TO CAT® PARTS BOOK FOR PROPER APPLICATION.

✓ FP DIESEL STOCK ITEM.

ENGINE	PUMP #
3304,3306	FP-2P7830 ✓
3306	FP-3P7623 ✓
D333C,G333C,3306G	FP-6N2820 ✓
D333C,3306	FP-1P4231 ✓
D333C,3306	FP-5S4359 ✓
D333C,3306	FP-7S8660 ✓
D333C,3306	FP-4W2448 (FP-6I1346) ✓
3406	FP-4N0735
3408	FP-6N2450 ✓
3408	FP-4N8734 ✓
D342	FP-7N4170 ✓
D342,D353	FP-5H1719 ✓
D342,D353	FP-7M6621 ✓
D342,D343,D353	FP-3P4002 ✓
D339,D342,D343	FP-2S7873 ✓
D342,D343,D353	FP-7S7400 ✓
D343	FP-9S1195 ✓
D353	FP-3G6002 (FP-9T6577) ✓
D353	FP-4M1001 ✓

PUMP GROUP, GEAR POWER TRAIN OIL LINES

ENGINE MODEL	PART #
D333C,D353,3306	FP-2P9239 ✓
D342,D343,D353	FP-3P4855 ✓
D339,D342	FP-3P6293 ✓
D333,D333C	FP-3P6814 ✓
D315,D333,D333C,3306	FP-3P6816 ✓

ELECTRICAL SECTION

STARTERS

PART NUMBER	REBUILT NUMBER	VOLTAGE	ROTATION	DR PINION TEETH QTY.
FP-4N3181	FP-OR5207	24V	CW	12
FP-6N1889	FP-OR2187	24V	CW	11
FP-3T2655	FP-OR5208	12V	CW	12
FP-3T2657	FP-OR5216	12V	CW	12
FP-3T8950	FP-OR5214	24V	CW	12

DIODES

COILS

DRIVE ASSY.

ARMATURES

PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER	PART NUMBER
FP-8L9363	FP-5L8731	FP-4N4517	FP-5L8877	FP-8S1546
FP-8L9365	FP-4M1839	FP-6N3826	FP-7L8587	FP-9S6100
FP-9N1202	FP-7M0324	FP-6N3827	FP-4M1868	FP-3T0867
	FP-4N4690	FP-3T5340	FP-7M8651	FP-3T5425

BRUSHES

PART NUMBER	
FP-4M1845	
FP-4N8618	KIT
FP-4N9401	KIT
FP-1P1130	
FP-2P8868	KIT
FP-3T4703	

SOLENOIDS

PART NUMBER	PART NUMBER
FP-9L8791	FP-3T3421
FP-1N5878	FP-3T3976
FP-4N7154	FP-3T5045
FP-6N3748	FP-3T5068
FP-6N7035	FP-3T5445
FP-6N9987	FP-3T8635
FP-6N9988	FP-7T8854

ALTERNATORS

PART NUMBER	REBUILT NUMBER	VOLTAGE
FP-7G7889	N/A	
FP-9G6079	FP-OR5200	
FP-9L5939	FP-OR5202	12V
FP-4N3986	FP-OR5203	12V
FP-5N5692	FP-OR2698	24V
FP-6N9294	FP-OR5217	
FP-5S9088	FP-OR5206	

SECTION 6

MACHINE SERIAL NUMBER TO MODEL NUMBER GUIDE

**Machine Serial Number To
Model Number Guide-Late..... 152**

**Machine Serial Number To
Model Number Guide-Early..... 163**

SERIAL NUMBER TO MODEL NUMBER GUIDE-LATE

TRACK-TYPE TRACTORS

BEGINNING #	MODEL	ENGINE MODEL	ESN
66A00001	D9G	D353	97U
2CB00001	D4E	3304	46V
2SB00001	D7H	3306	10Z
2SB04000	D7H	3306	10Z
4AB00001	D7H	3306	10Z
4AB04000	D7H	3306	10Z
4FB00001	D8L	3408	48W
5WB00001	D7H	3306	10Z
5WB04000	D7H	3306	10Z
5YB00001	D6D	3306	1TF
7MB00001	D7G	3306	44V
7PB00001	D4E	3304	59Z,4YD
7YB00001	D8L	3408	77M
8KB00001	D6H	3306	8Z
8MB00001	D5B	3306	13Z
8PB00001	D4H	3204	45V
8PB04000	D4H	3204	45V
90B00001	D6C	3306	44V
90B00001	D4H	3204	45V
90B04000	D4H	3204	45V
19B00400	D6D	3306	47V,8TD
2AC00001	D4H	3204	45V
2AC04000	D4H	3204	45V
2PC00001	D3B	3204	45V
3AC00001	D4H	3204	45V
3AC04000	D4H	3204	45V
3YC00001	D3B	3204	45V
4RC00001	D6H	3306	8Z
4RC04000	D6H	3306	8Z
5MC00001	D3B	3204	45V
6FC00001	D6H	3306	8Z
6FC04000	D6H	3306	8Z
6HC00001	D6D	3306	10Z
7JC00001	D8L	3408	77M
7NC00001	D5H	3304	12Z
7NC04000	D5H	3304	12Z
7PC00001	D6H	3306	13Z
8FC00001	D6H	3306	10Z
8FC04000	D6H	3306	10Z
8RC00001	D5H	3304	12Z
8RC04000	D5H	3304	12Z
8SC00001	D5H	3304	12Z
8YC00001	D6H	3306	13Z
9HC00001	D5H	3304	12Z
9HC04000	D5H	3304	12Z
9TC00001	D8N	3406	70V
31C00100	D4E	3304	59Z
34C00100	D4E	3304	59Z

BEGINNING #	MODEL	ENGINE MODEL	ESN
36C00100	D6D	3306	60Z,1AF
37C00200	D6D	3306	60Z,1AF
38C00100	D6D	3306	60Z
1DD00001	D5H	3304	12Z
1DD04000	D5H	3304	12Z
1JD00001	D9N	3408	48W
1KD00001	D6H	3306	10Z
1KD04000	D6H	3306	10Z
1YD00001	D5H	3304	9Z
1YD04000	D5H	3304	9Z
2KD00001	D6H	3306	10Z
2KD04000	D6H	3306	10Z
2SD00001	D5H	3304	9Z
2SD04000	D5H	3304	9Z
2YD00001	D10N	3412	73W
3ED00001	D6H	3306	10Z
3ED04000	D6H	3306	10Z
3MD00001	D5H	3304	9Z
3MD04000	D5H	3304	9Z
4KD00001	D5H	3304	9Z
4KD04000	D5H	3304	9Z
5LD00001	D5B	3306	1AF
8HD00001	D5B	3306	1AF
2XF00001	D4B	3204	45V
3RF00001	D3C	3204	45V
3ZF00001	D6H	3306	8Z
3ZF04000	D6H	3306	8Z
4YF00001	D6H	3306	10Z
5BF00001	D7H	3306	8Z
5BF04000	D7H	3306	8Z
5HF00001	D6H	3306	13Z
5HF04000	D6H	3306	13Z
6CF00001	D6H	3306	13Z
6CF04000	D6H	3306	13Z
6PF00001	D3C	3204	45V
7JF00001	D3C	3204	45V
7XF00001	D6DSR	3306	1AF
8BF00001	D3C	3204	45V
8ZF00001	D4HTSK	3204	45V
97F00001	D4D	3304	46V
1SG00001	D4B	3204	45V
2RG00001	D7H	3306	10Z
2RG04000	D7H	3306	10Z
2TG00001	D6H	3306	13Z
2TG04000	D6H	3306	13Z
3XG00001	D7H	3306	10Z
3YG00001	D6H	3306	8Z
3YG04000	D6H	3306	8Z

SERIAL NUMBER TO MODEL NUMBER GUIDE-LATE

TRACK-TYPE TRACTORS

BEGINNING #	MODEL	ENGINE MODEL	ESN
4FG00001	D7H	3306	8Z
4FG04000	D7H	3306	8Z
3XG04000	D7H	3306	10Z
4GG00001	D6H	3306	10Z
4LG00001	D6H	3306	13Z
4LG04000	D6H	3306	13Z
5KG00001	D3C	3204	45V
5ZG00001	D3C	3204	45V
7EG00001	D5HTSK	3304	9Z
7JG00001	D3C	3204	45V
7KG00001	D4C	3204	45V
8DG00001	D3C	3204	45V
9BG00001	D4C	3204	45V
9RG00001	D5E	3306	8TD
44H00001	D4D	3304	48V
47H00001	D4D	3304	43V
1FJ00001	D6H	3306	13Z
1PJ00001	D3C	3204	45V
1RJ00001	D4C	3204	45V
1XJ00001	D8N	3406	70V
2CJ00001	D4C	3204	45V
2DJ00001	D4ESR	3304	4YD
2MJ00001	D6E	3306	1AF
46J00001	D6C	3306	49V
47J00001	D6C	3306	49V
4HJ00001	D3C	3204	45V
59J00001	D4D	3304	48V
5CJ00001	D3C	3204	45V
5TJ00001	D8N	3406	11N
60J00001	D4D	3304	48V
61J00001	D4D	3304	48V
62J00001	D5	3306	49V
63J00001	D5	3306	49V
65J00001	D4D	3304	43V
66J00001	D4D	3304	43V
67J00001	D5	3306	44V
68J00001	D5	3306	44V
69J00001	D6C	3306	44V
6PJ00001	D5C	3204	45V,7YJ
6XJ00001	D9N	3408	48W
82J00001	D4D	3304	78P
83J00001	D4D	3304	78P
84J00001	D4D	3304	78P
8FJ00001	D6ESR	3306	8TD
8PJ00001	D4HXL	3304	9Z
8RJ00001	D5HXL	3304	12Z
8ZJ00001	D6HXL	3306	8Z
90J00001	D9G	D353	97U
91J00001	D9G	D353	97U
93J00001	D5	3306	3N

BEGINNING #	MODEL	ENGINE MODEL	ESN
94J00001	D5	3306	3N
95J00001	D5	3306	3N
96J00001	D5	3306	3N
97J00001	D5	3306	44V
98J00001	D5	3306	3N
99J00001	D6C	3306	3N
9GJ00001	D4H	3304	9Z
9KJ00001	D6HXL	3306	8Z
1FJ04000	D6H	3306	13Z
10K00001	D6C	3306	3N
26K00001	D6C	3306	44V
2DK00001	D6H	3306	10Z
3MK00001	D5C	3204	45V,7YJ
3SK00001	D10N	3412	73W
4HK00001	D11N	3508	7YJ
4NK00001	D4H	3304	9Z
5KK00001	D6HXR	3306	8Z
6CK00001	D6HXR	3306	8Z
7TK00001	D8N	3406	11N
7YK00001	D6D	3306	8TD
8KK00001	D6HXL	3306	13Z
9FK00001	D6D	3306	8TD
9LK00001	D6HXL	3306	13Z
1YL00001	D6HXR	3306	13Z
2BL00001	D6HXR	3306	13Z
6SL00001	D3C	3046	5XK
6YL00001	D4C	3046	5XK
6ZL00001	D5CLGP	3046	5XK
7SL00001	D4C	3046	5XK
7TL00001	D9R	3408	48W
7XL00001	D3C	3046	5XK
8BL00001	D9R	3408	48W
9DL00001	D5C	3046	5XK
06N00001	D3	3204	45V
29N00001	D9G	D353	97U
30N00001	D9G	D353	97U
35N00001	D7G	3306	3N,62Z
06R00001	D5	3306	49V
07R00001	D4D	3304	48V
12R00001	D5	3306	49V
17R00001	D6C	3306	3N
23U00001	D6C	3306	47V
24U00001	D6C	3306	47V
69U00001	D6C	3306	3N
74U00001	D4D	3304	46V
79U00001	D3	3204	45V
82U00001	D3	3204	45V
83U00001	D3	3204	45V
64V00001	D7G	3306	44V,10Z
65V00001	D7G	3306	44V,10Z

SERIAL NUMBER TO MODEL NUMBER GUIDE-LATE

TRACK-TYPE TRACTORS

BEGINNING #	MODEL	ENGINE MODEL	ESN
66V00001	D8K	D342	50V
76V00001	D8K	D342	17S,50V
77V00001	D8K	D342	17S
90V00001	D9H	D353	97U
91V00001	D7G	3306	3N,8Z,62Z
92V00001	D7G	3306	3N,8Z,62Z
97V00001	D9H	D353	97U
98V00001	D9H	D353	97U
44W00001	D7G	3306	44V,10Z
45W00001	D7G	3306	10Z
72W00001	D7G	3306	3N,8Z,62Z
74W00001	D6D	3306	47V,8TD
75W00001	D6D	3306	3N,8Z
76W00001	D4E	3304	46V,9CB
77W00001	D4E	3304	46V,9CB
84W00001	D10	D348	98S
03X00001	D6D	3306	3N,8Z
04X00001	D6D	3306	3N,8Z
05X00001	D6D	3306	3N,8Z
06X00001	D6D	3306	3N,8Z
19X00001	D6D	3306	49V,13Z
20X00001	D6D	3306	49V,13Z
22X00001	D5B	3306	3N,8Z
23X00001	D5B	3306	3N,8Z
24X00001	D5B	3306	3N,8Z
25X00001	D5B	3306	3N,8Z
26X00001	D5B	3306	3N,8Z
27X00001	D4E	3304	78P,7Z
28X00001	D4E	3304	78P,7Z
29X00001	D4E	3304	78P,7Z
30X00001	D6D	3306	44V,10Z
31X00001	D6D	3306	44V,10Z
32X00001	D6D	3306	44V,10Z
33X00001	D6D	3306	44V,10Z

BEGINNING #	MODEL	ENGINE MODEL	ESN
43X00001	D5B	3306	49V,13Z
44X00001	D5B	3306	49V,13Z
45X00001	D5B	3306	49V,13Z
46X00001	D5B	3306	49V,13Z
47X00001	D5B	3306	44V,10Z
48X00001	D5B	3306	44V,10Z
49X00001	D5B	3306	44V,10Z
50X00001	D4E	3304	43V,9Z
51X00001	D4E	3304	43V,9Z
52X00001	D4E	3304	43V,9Z
68X00001	D4E	3304	48V,12Z
69X00001	D4E	3304	48V,12Z
70X00001	D4E	3304	48V,12Z
71X00001	D4E	3304	48V,12Z
72X00001	D4E	3304	48V,12Z
76X00001	D10	D348	98S
01Y00001	D6D	3306	49V,13Z
3Y00001	D6H	3306	10Z
14Y00001	D9L	3412	73W
21Y00001	D5B	3306	49V,13Z
23Y00001	D3B	3204	45V
24Y00001	D3B	3204	45V
27Y00001	D3B	3204	45V
28Y00001	D3B	3204	45V
53Y00001	D8L	3408	48W
74Z00001	D11N	3508	99W
77Z00001	D7H	3306	8Z
79Z00001	D7H	3306	8Z
79Z04000	D7H	3306	8Z
80Z00001	D7H	3306	8Z
80Z04000	D7H	3306	8Z
82Z00001	D7H	3306	10Z
82Z04000	D7H	3306	10Z

SERIAL NUMBER TO MODEL NUMBER GUIDE-LATE

TRACK LOADERS

BEGINNING #	MODEL	ENGINE MODEL	ESN
4SC00001	931B	3204	45V
6EC00001	931B	3204	45V
32F00001	951B	3304	43V
32F00902	951C	3304	43V
3DF00001	935B	3204	45V
6RF00001	931C	3204	45V
7HF00001	931C	3204	45V
8AF00001	931C	3204	45V
8CF00001	935C	3204	45V
5LG00001	931C	3204	45V
66G00001	973	3306	13Z
86G00001	973	3306	13Z
9AG00001	931C	3204	45V
19H00001	951C	3304	43V
69H00001	951B	3304	48V
69H01869	951C	3304	48V
70H00001	941	3304	48V
80H00001	941	3304	78P
80H03040	941B	3304	78P
2BJ00001	931C	3204	45V
48J00001	977K	3306	49V
48J00586	977L	3306	49V
5DJ00001	935C	3204	45V
6AJ00001	931C	3204	45V
70J00001	977K	3306	44V
70J01303	977L	3306	44V
71J00001	955K	3304	43V
71J03198	955L	3304	43V
85J00001	955K	3304	78P
85J04672	955L	3304	78P
86J00001	951B	3304	78P
86J01992	951C	3304	78P
64J00278	955K	3304	48V
64J09258	955L	3304	48V
11K00001	977K	3306	3N
11K03919	977L	3306	3N
2AK00001	931C	3204	45V
38K00001	983	D343	52K
8FL00001	933	3046	5XK

BEGINNING #	MODEL	ENGINE MODEL	ESN
90L00001	973	3306	10Z
91L00001	973	3306	10Z
9EL00001	933	3046	5XK
9GL00001	939	3046	5XK
57M00001	955L	3304	43V
08N00001	931	3204	45V
10N00001	931	3204	45V
29S00001	963	3304	9Z
16U00001	941	3304	43V
78U00001	931	3204	45V
81U00001	931	3204	45V
13X00001	955L	3304	78P
58X00001	983B	3406	70V
64X00001	977L	3306	49V
95X00001	977L	3306	44V
14X00807	977L	3306	3N,62Z
03Y00001	943	3204	10X,45V
08Y00001	955L	3304	48V
25Y00001	931B	3204	45V
26Y00001	931B	3204	45V
29Y00001	931B	3204	45V
30Y00001	931B	3204	45V
31Y00001	943	3204	10X,45V
76Y00001	953	3204	10X,45V
77Y00001	953	3204	10X,45V
78Y00001	953	3204	45V
04Z00001	943	3204	10X,45V
05Z00001	953	3204	10X,45V
06Z00001	963	3304	7Z
11Z00001	963	3304	7Z
18Z00001	963	3304	12Z
19Z00001	943	3204	10X,45V
20Z00001	953	3204	10X,45V
21Z00001	963	3304	12Z
26Z00001	973	3306	8Z
32Z00001	973	3306	8Z
44Z00001	953	3204	45V
48Z00001	963	3304	9Z

SERIAL NUMBER TO MODEL NUMBER GUIDE-LATE

SCRAPERS

BEGINNING #	MODEL	ENGINE MODEL	ESN
1HB00001	637E	3306	8Z
1LB00001	637E	3306	8Z
4JB00001	637D	3306	8Z
6FB00001	627E	3306	8Z
6HB00001	627E	3306	8Z
6MB00001	657E	3408	48W
7CB00001	637E	3306	8Z
20G00001	666	D343	52K
20G00242	666B	D343	52K
2XG00898	615C	3306	8Z
3WJ00001	627E	3306	8Z
4YK00001	627F	3306	8Z
50K00001	627	3306	3N
53K00001	657	D343	52K
53K00838	657B	D343	52K
47M00001	657B	D343	52K
64M00001	637	3306	3N

BEGINNING #	MODEL	ENGINE MODEL	ESN
69M00001	627	3306	3N
91N00001	637	3306	3N
92N00001	637	3306	3N
26R00001	637B	3306	3N
32V00001	627B	3306	47V
33V00001	627B	3306	47V
37V00001	627B	3306	3N,8Z
38V00001	627B	3306	3N,8Z
20W00001	637D	3306	3N,8Z
21W00001	637D	3306	3N,8Z
22W00001	637D	3306	3N,8Z
23W00001	637D	3306	3N,8Z
70W00001	637D	3306	47V
88X00001	639D	3306	3N,8Z
86Z00001	657E	3408	48W
87Z00001	657E	3408	48W

PIPELAYERS

BEGINNING #	MODEL	ENGINE MODEL	ESN
8HB00001	578	3406	70V
8PC00001	572G	3306	10Z
5ZD00001	571G	3306	8Z
62H00001	594	D353	97U
92J00001	561C	3306	3N
95N00001	571F	3306	3N
96N00001	572F	3306	3N

BEGINNING #	MODEL	ENGINE MODEL	ESN
40U00001	572G	3306	3N,8Z
78V00001	583K	D342	17S
96V00001	594H	D353	97U
16W00001	571G	3306	3N
54X00001	561D	3306	3N,8Z
31Z00001	589	3408	48W

PAVING PRODUCTS

BEGINNING #	MODEL	ENGINE MODEL	ESN
5WC00001	PR-105	3204	6DC
5XC00001	PR-1000	3208	3Z
5XC00138	PR-1000	3208	3Z
5ZC00001	SF-175	3208	90N
6RC00001	PR-275	3306	64Z
6WC00001	TR-225B	3208	3Z
6XC00001	SF-250	3208	90N
7DC00001	PR-450	3408	87U
7GC00001	SF-450	3306	64Z
5PD00001	SF-550	3406	6TB
5RD00001	SF-350	3306	64Z
6DD00001	SS-250	3406	6TB
6ED00001	RR-250	3406	6TB
6ZD00001	CS-551	3208	90N
7AD00001	CS-553	3208	90N
7BD00001	CP-553	3208	90N

BEGINNING #	MODEL	ENGINE MODEL	ESN
7BD00001	CS-553	3208	90N
7CD00001	CB-614	3208	90N
7DD00001	CB-624	3208	90N
7FD00001	CS-643	3304	12Z
7GD00001	CP-643	3304	12Z
7GD00001	CS-643	3304	12Z
7HD00001	CS-653	3304	12Z
7JD00001	CP-653	3304	12Z
7JD00001	CS-653	3304	12Z
2EF00001	SF-250B	3208	3Z
2YF00001	CB-534	3304	10E
2EG00001	CB-534	3304	4XB
3TK00001	PM-565	3408	48W
5FK00001	RM-350	3406	11N
2JM00001	CP-433C	3054	5HK
3TM00001	CS-433C	3054	5HK

SERIAL NUMBER TO MODEL NUMBER GUIDE-LATE

PAVING PRODUCTS

BEGINNING #	MODEL	ENGINE MODEL	ESN
8AC00001	PR-750B	3412	38S
8CC00001	TR-500	3208	90N

BEGINNING #	MODEL	ENGINE MODEL	ESN
7XD00001	PS-500	3208	90N
7PJ00001	PR-450C	3408	67U

MOTOR GRADERS

BEGINNING #	MODEL	ENGINE MODEL	ESN
7GB00001	130G	3304	7Z
7KB00001	120B	3306	2JG
3WC00001	12G	3306	8Z
32C00100	120B	3306	60Z
33C00100	140B	3306	60Z
4HD00001	120G	3304	9CB
4JD00001	160G	3306	8Z
5MD00001	140G	3306	8TD
55F00001	140	3306	3N
72G00001	14E	3306	3N
89H00001	12F	3306	3N
80J00001	112F	3304	78P
89J00001	112F	3304	78P
9EJ00001	160HNA	3306	08Z
12K00001	14E	3306	3N
13K00001	12F	3306	3N
17K00001	12E	3306	3N
22K00001	140HNA	3306	08Z
3PL00001	12G	3306	8TD
4XM00001	12HNA	3306	08Z

BEGINNING #	MODEL	ENGINE MODEL	ESN
61M00001	12G	3306	3N,8Z
10R00001	120	3306	3N
11R00001	140	3306	3N
22R00001	120	3306	3N
24R00001	140	3306	3N
61S00001	140B	3306	47V
13U00001	120	3306	3N
14U00001	140	3306	3N
64U00001	120B	3306	47V
93U00001	16G	3405	70V
96U00001	14G	3306	3N,8Z
72V00001	140G	3306	3N,8Z
74V00001	130G	3304	78P,7Z
81V00001	140G	3306	3N
82V00001	120G	3304	78P
87V00001	120G	3304	78P,7Z
11W00001	120G	3304	78P,7Z
12W00001	130G	3304	78P,7Z
13W00001	140G	3306	3N,8Z
09Y00001	130G	3304	78P

SKIDDERS

BEGINNING #	MODEL	ENGINE MODEL	ESN
96C00001	528	3306	8Z
97C00001	528	3306	8Z
9NC00001	508	3204	45V
2HD00001	508	3204	45V
9HJ00001	518C	3304	7Z
5BK00001	530B	3306	8Z
1CL00001	518C	3304	7Z
50S00001	518	3304	78P,7Z

BEGINNING #	MODEL	ENGINE MODEL	ESN
51S00001	528	3306	3N,8Z
55U00001	518	3304	78P,7Z
94U00001	518	3304	78P,7Z
94U02500	518	3304	7Z
95U00001	518	3304	78P,7Z
95U03200	518	3304	7Z
78W00001	528	3306	3N,8Z

SERIAL NUMBER TO MODEL NUMBER GUIDE-LATE

ARTICULATED DUMP TRUCKS

BEGINNING #	MODEL	ENGINE MODEL	ESN
7ZC00001	D30C	3306	7JB,13Z
8XC00001	D350C	3306	7JB,13Z
9YC00001	D25C	3306	7JB,13Z
1MD00001	D400	3406	6TB
2GD00001	D35C	3306	7JB,13Z
2LD00001	D44	3408	67U
3FD00001	D35HP	3406	6TB
4RD00001	D550	3408	67U
4SD00001	D300B	3306	7JB,13Z

BEGINNING #	MODEL	ENGINE MODEL	ESN
5ND00001	D550B	3408	67U
5WD00001	D250B	3306	7JB,13Z
8SD00001	D44B	3408	67U
8TF00001	D400D	3406	70V
9RF00001	D350D	3306	13Z
5MG00001	D300D	3306	13Z
2JJ00001	D40D	3406	70V,11N
3AJ00001	D30D	3306	13Z
1HK00001	D25D	3306	13Z

LIFT TRUCKS

BEGINNING #	MODEL	ENGINE MODEL	ESN
8FB00001	V925	3208	79V
5LC00001	V700	3208	79V
5LC00001	V800	3208	79V
9SC00001	V550	3208	79V
2DD00001	V620	3208	79V
3WD00001	V900CH	3208	79V
6BF00001	V1100CT	3208	79V
8NF00001	V925LH	3208	79V
9AF00001	V160B	3208	79V
9AF00001	V180B	3208	79V
9AF00001	V200B	3208	79V
8EJ00001	V165C	3208	79V
8EJ00001	V200C	3208	79V
1DK00001	V200B	3208	79V
1DK00001	V225B	3208	79V
3LK00001	V265C	3208	79V
3LK00001	V300C	3208	79V
3LK00001	V330C	3208	79V
4AK00001	V200C	3208	79V
4AK00001	V225C	3208	79V
20V00001	V200	3208	79V

BEGINNING #	MODEL	ENGINE MODEL	ESN
20V00001	V225	3208	79V
21V00001	V200	3208	79V
21V00001	V225	3208	79V
67Y00001	V160B	3208	79V
67Y00001	V180B	3208	79V
67Y00001	V200B	3208	79V
68Y00001	V160B	3208	79V
68Y00001	V180B	3208	79V
68Y00001	V200B	3208	79V
69Y00001	V200B	3208	79V
69Y00001	V225B	3208	79V
70Y00001	V200B	3208	79V
70Y00001	V225B	3208	79V
72Y00001	V250B	3208	79V
72Y00001	V300B	3208	79V
72Y00001	V330B	3208	79V
85Y00001	V200B	3208	79V
85Y00001	V225B	3208	79V
86Y00001	V250B	3208	79V
86Y00001	V300B	3208	79V
86Y00001	V330B	3208	79V

SERIAL NUMBER TO MODEL NUMBER GUIDE-LATE

EXCAVATORS

BEGINNING #	MODEL	ENGINE MODEL	ESN
9YB00001	215B	3304	12Z
2XC00001	215B	3204	10X,45V
4FC00001	215B	3304	12Z
4JC00001	215B	3204	10X,45V
7WC00001	235B	3306	8Z
9PC00001	235B	3306	13Z
1FDC0001	235B	3306	8Z
2ZD00001	225B	3208	79V
3YD00001	225B	3304	12Z
4ED00001	235B	3306	13Z
1GF00001	229	3208	79V
5AF00001	235C	3306	8Z
5CF00001	219	3304	12Z
6MF00001	245B	3406	70V
6MF00513	245B	3406	11N
9TF00001	215D	3304	12Z
1RF00101	E180	3204	45V
2CF00101	E300	3306	10Z
4EF00101	EL180	3204	45V
4JF00101	EL240	3304	9Z
4NF00101	EL300	3306	10Z
1AG00001	229	3304	12Z
2PG00001	235C	3306	13Z
3WG00001	235C	3306	8Z
4DG00001	235C	3306	13Z
4HG00001	215C	3304	12Z
5XG00001	219D	3304	12Z
6RG00001	225D	3304	12Z
8XG00001	375	3406	11N
9NG00001	330	3306	10Z
1FG00101	E240	3304	9Z
1SJ00001	245B	3406	70V
1SJ00713	245B	3406	11N
1WJ00001	E300B	3306	10Z
2LJ00001	229D	3304	12Z
2SJ00001	225D	3208	79V
3FJ00001	EL300B	3306	10Z
5WJ00001	231D	3208	79V
6WJ00001	330L	3306	10Z
7ZJ00001	245D	3406	11N
8KJ00001	235D	3306	8Z
8TJ00001	235D	3306	13Z
8WJ00001	375	3406	11N
9LJ00001	311	3064	6LK
9PJ00001	330	3306	10Z
9WJ00001	330	3306	10Z

BEGINNING #	MODEL	ENGINE MODEL	ESN
1NK00001	231D	3208	79V
32K00001	235	3306	3N,8Z
4LK00001	245D	3406	11N
6GK00001	312	3064	6LK
6NK00001	375	3406	11N
6SK00001	330L	3306	10Z
6ZK00001	330	3306	13Z
7RK00001	350	3306	10Z
8CK00001	330LN	3306	13Z
8FK00001	330L	3306	10Z
8HK00001	350	3306	13Z
9DK00001	350L	3306	10Z
6XK000015	5080	3406	11N
2EL00001	330L	3306	13Z
2ZL00001	350	3306	8Z
3ML00001	350L	3306	8Z
6BL00001	312	3054	5HK
84L00001	245	3406	70V
96L00001	215	3304	48V
9FL00001	350L	3306	11N
9WL00001	375L	3406	11N
5ZL000015	5130	3508	7YG
7LL000015	5230	3516	2PK
1JM00001	375L	3406	11N
2WM00001	307	3054	5HK
2ZM00001	330	3306	08Z
3ZM00001	315	3054	5HK
4MM00001	317	3054	5HK
4YM00001	315	3046	5XK
5YM00001	330L	3306	08Z
6YM00001	315L	3046	5XK
64R00001	235	3306	49V,13Z
20S00001	225	3304	46V
51U00001	225	3208	79V
76U00001	225	3304	48V,12Z
95V00001	245	3406	70V
61X00001	225	3208	79V
62X00001	235	3306	3N,8Z
81X00001	235	3306	3N,8Z
82X00001	245	3406	70V
83X00001	235	3306	49V,13Z
84X00001	245	3406	70V
57Y00001	215	3204	10X
14Z00001	215	3204	10X
61Z00001	215	3204	10X
95Z00001	215	3304	12Z

SERIAL NUMBER TO MODEL NUMBER GUIDE-LATE

TRUCKS

BEGINNING #	MODEL	ENGINE MODEL	ESN
84A00001	777	D348	98S
86B00001	785	3512	96Z
4YC00001	777B	3508	99W
9ZC00001	789	3516	54Z
3NF00001	777B	3508	99W
99F00001	789	D343	52K
99F01121	789B	D344	52K
63G00001	773	D346	73X
3BJ00001	771C	3408	48W

BEGINNING #	MODEL	ENGINE MODEL	ESN
3SJ00001	793	3516	54Z
4XJ00001	777C	3508	7YG
7XJ00001	775B	3412	73W
6HK00001	785B	3512	4WJ
7EK00001	789B	3516	2PK
1HL00001	793B	3516	2PK
63W00001	773B	3412	73W
01X00001	769C	3408	48W

WHEEL LOADERS

BEGINNING #	MODEL	ENGINE MODEL	ESN
2EB00001	980C	3406	70V,81Y
2XB00001	916	3204	45V
4NB00001	926	3204	45V
4NB02076	926E	3204	45V
4SB00001	936	3304	9Z
4SB01623	936E	3304	9Z
17B00220	930	3304	9CB
17B01000	930T	3304	9CB
13B00300	980C	3406	70V,81Y
18B00374	966C	3306	47V,8TD
5KC00001	916	3204	45V
1SD00001	G926	3204	45V
2FD00001	966D	3306	1TF
2FD00858	966E	3306	1TF
2XD00001	980C	3406	70V,11N
3HD00001	G936	3304	7Z
3SD00001	G910	3204	45V
3TD00001	G926	3204	45V
4ND00001	G936	3304	12Z
5GD00001	G916	3204	45V
4YG00001	966F	3306	8Z
78G00001	966C	3306	44V
71H00001	930	3304	46V,9CB
3XJ00001	966F	3306	13Z
41J00001	920	3304	48V
42J00001	966C	3306	49V
43J00001	950	3304	48V
5XJ00001	980F	3406	11N
73J00001	950	3304	43V
75J00001	920	3304	43V
76J00001	966C	3306	3N
79J00001	930	3304	48V
7MJ00001	992D	3412	73W
25K00001	992	D348	98S
25K01170	992B	D348	98S

BEGINNING #	MODEL	ENGINE MODEL	ESN
30K00001	966C	3306	3N
31K00001	950	3304	78P
3HK00001	980F	3406	11N
41K00001	930	3304	78P
4TK00001	936F	3304	7Z
62K00001	920	3304	78P
7HK00001	990	3412	73W
1SL00001	966F	3306	8Z
7PL00001	970F	3306	10Z
4RN00001	980FII	3406	11N
31R00001	950B	3304	7Z
63R00001	950B	3304	12Z
63R06054	950E	3304	12Z
65R00001	950B	3304	9Z
65R03088	950E	3304	9Z
35S00001	966D	3306	10Z
35S02523	966E	3306	10Z
25U00001	966C	3306	47V
73U00001	930	3304	43V
50W00001	988B	3408	48W
42X00001	992C	3412	73W
63X00001	980C	3406	70V,11N
40Y00001	910	3204	45V
41Y00001	910	3204	45V
62Y00001	988B	3408	48W
22Z00001	950B	3304	7Z
22Z03189	950E	3304	7Z
33Z00001	936	3304	7Z
45Z00001	936	3304	12Z
45Z03057	936E	3304	12Z
49Z00001	992C	3412	73W
57Z00001	930R	3304	4YD,48V,59Z
57Z04000	930T	3304	4YD
58Z00001	966R	3306	47V,60Z,1AF
33Z03091	936E	3304	7Z

SERIAL NUMBER TO MODEL NUMBER GUIDE-LATE

WHEEL LOADERS

BEGINNING #	MODEL	ENGINE MODEL	ESN
87A00001	988	D343	52K
8CB00001	930	3304	43V
8NB00001	928	3204	45V
8NB01542	926E	3204	45V
9WB00001	916	3204	45V
7TC00001	926	3204	45V
7TC00834	926E	3204	45V
9KC00001	966C	3306	47V
8ED00001	G936	3304	9Z
8GD00001	G910	3204	45V
9YF00001	994	3516	54Z
8BG00001	966F	3306	10Z
8YG00001	988F	3408	48W
81J00001	950	3304	78P
8AJ00001	936F	3304	7Z

BEGINNING #	MODEL	ENGINE MODEL	ESN
8CJ00001	980F	3406	11N
9YJ00001	966F	3306	13Z
7SK00001	970F	3306	8Z
9JK00001	970F	3306	13Z
9MK00001	936F	3304	9Z
8JN00001	980FII	3406	11N
89P00001	980B	3306	3N
80U00001	910	3204	45V
94X00001	966D	3306	13Z
94X06489	966E	3306	13Z
99Y00001	966D	3306	8Z
99Y05315	966E	3306	8Z
94Z00001	926	3204	45V
94Z02209	926E	3204	45V

COMPACTORS

BEGINNING #	MODEL	ENGINE MODEL	ESN
3RL00001	838	3408	48W
43N00001	825B	D343	52K
91P00001	815	3306	3N
15R00001	815	3306	49V
57U00001	816	3306	3N

BEGINNING #	MODEL	ENGINE MODEL	ESN
58U00001	826B	D343	52K
86X00001	825C	3406	70V
87X00001	826C	3406	70V
15Z00001	816B	3306	8Z
17Z00001	815B	3306	8Z

INTEGRATED TOOLCARRIERS

BEGINNING #	MODEL	ENGINE MODEL	ESN
7ZB00001	IT18	3204	45V
8JB00001	IT28	3204	45V
9NB00001	IT18	3204	45V
2KC00001	IT28	3204	45V
2YC00001	IT12	3204	45V

BEGINNING #	MODEL	ENGINE MODEL	ESN
4NC00001	IT12	3204	45V
4ZD00001	IT18B	3204	45V
5SD00001	IT28B	3204	45V
1DF00001	IT18B	3204	45V
1HF00001	IT28B	3204	45V

BRANDED FORESTRY

BEGINNING #	MODEL	ENGINE MODEL	ESN
8ZC00001	FB518	3304	7Z
8MD00001	LL228	3208	90N
8PD00001	LL231	3306	64Z
8XD00001	FB221	3208	3Z

BEGINNING #	MODEL	ENGINE MODEL	ESN
8YD00001	DL221	3208	90N
10W00001	227	3208	79V
49U00001	950	3304	78P

SERIAL NUMBER TO MODEL NUMBER GUIDE-LATE

AGRICULTURAL TRACTOR

BEGINNING #	MODEL	ENGINE MODEL	ESN
7YC00001	CH65	3306	8Z
7YC01900	CH65B	3306	8Z
14H00001	776	D348	98S
2ZJ00001	CH65C	3306	8Z

COAL HAULERS

BEGINNING #	MODEL	ENGINE MODEL	ESN
2YL00001	CH70C	3306	8Z
11S00001	772	D346	73X
64W00001	772B	3412	73W

WHEEL-TYPE TRACTORS

BEGINNING #	MODEL	ENGINE MODEL	ESN
1AB00001	631E	3408	48W
1FB00001	637E	3408	48W
1JB00001	637E	3408	48W
1NB00001	631E	3408	77M
2GB00001	621B	3406	70V
6AB00001	621E	3406	70V
6CB00001	623E	3406	70V
6EB00001	627E	3306	8Z
6GB00001	627E	3306	8Z
6JC00001	776B	3508	99W
2PD00001	621E	3406	70V
3ND00001	631E	3408	77M,48W
8KD00001	621S	3306	8TD
5TF00001	615C	3306	8Z
6YF00001	623E	3406	70V
7CG00001	627E	3406	70V
9XG00001	615C	3306	8Z
36H00001	824B	D343	52K
2TK00001	776C	3508	7YG
4SK00001	621F	3406	11N
54K00001	627	9306	3N
58K00001	650B	D346	73X
58K00001	660B	D346	73X
5RK00001	784B	3512	4WJ
65K00001	641B	D346	73X
66K00001	666B	D346	73X
67K00001	651B	D346	73X
68K00001	657B	D346	73X
6BK00001	623F	3406	11N
1DL00001	627F	3406	11N
8PL00001	621F	3406	11N

BEGINNING #	MODEL	ENGINE MODEL	ESN
68M00001	627	3306	3N
71M00001	613	3208	79V
45P00001	621B	3406	70V
46P00001	623B	3406	70V
90P00001	814	3306	3N,62Z
14R00001	814	3306	49V
14S00001	627B	3306	3N,8Z
15S00001	627B	3306	3N,8Z
79S00001	768B	D343	52K
80S00001	772	D346	73X
34V00001	627B	3306	47V
35V00001	621B	3406	70V
56V00001	627B	3306	47V
24W00001	631D	3408	48W
25W00001	633D	3408	48W
26W00001	637D	3408	48W
27W00001	637D	3408	48W
38W00001	613B	3208	79V
66W00001	631D	3408	48W
71W00001	637D	3408	48W
02X00001	768C	3408	48W
85X00001	824C	3406	70V
92X00001	613C	3208	79V
99X00001	639D	3408	48W
12Y00001	621R	3306	47V
16Z00001	814B	3306	8Z
46Z00001	615	3306	8Z
89Z00001	651E	3412	73W
90Z00001	657E	3412	73W
91Z00001	657E	3412	73W
92Z00001	834B	3408	48W

SERIAL NUMBER TO MODEL NUMBER GUIDE-EARLY

SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
5A8403	5A8462	FIFTY TRACTOR	D-342
6A6000	6A6053		1670 TRUCK
10A1	10A1616	6 TRAX LOADER	D-318
11A1	11A3653	933 TRAXCAVATOR	D-311
12A1	12A8418	955 TRAXCAVATOR	D-315
13A1	13A3703	D8 TRACTOR	D-13000
14A1	14A9692	D8 TRACTOR	D-342
15A1	15A3383	D8 TRACTOR	D-342
16A1	16A300	583 PIPELAYER	D-342
17A1	17A19442	D7 TRACTOR	D-339
18A1	18A2505	D9 TRACTOR	D-353
19A1	19A1818	D9 TRACTOR	D-353
20A1	20A4222	977 TRAXCAVATOR	D-318
21A1	21A331	572 PIPELAYER	D-339
22A1	UP	D8 TRACTOR	D-342
24A1	24A1274	D4 TRACTOR	D-330
25A1	UP	933 TRAXCAVATOR	D-311
26A1	UP	955 TRAXCAVATOR	D-315
29A1	UP	D4 TRACTOR	D-315
30A1	UP	D4 TRACTOR	D-315
31A1	UP	D6 TRACTOR	D-318
32A1	UP	D6 TRACTOR	D-318
33A1	33A2110	966 TRAXCAVATOR	D-333A
34A1	34A793	D9E TRACTOR	D-353
35A1	35A776	D8H TRACTOR	D-342
36A1	UP	D8H TRACTOR	D-342
37A1	UP	D6B TRACTOR	D-333A
38A1	38A78	583 H PIPELAYER	D-342
39A1	UP	D4C TRACTOR	D-330
40A1	40A5253	D4C TRACTOR	D-330
41A1	41A395	D6C TRACTOR	D-333A
42A1	42A9202	933 TRAXCAVATOR	D-311
43A1	UP	944 WHEEL LOADER	D-330
44A1	44A13071	D6B TRACTOR	D-333A
45A1	45A1276	955F TRAXCAVATOR	D-330
46A1	UP	D8H TRACTOR	D-342
47A1	UP	D7E TRACTOR	D-339
48A1	UP	D7E TRACTOR	D-339
49A1	49A328	D9E TRACTOR	D-353
50A1	50A212	D9E TRACTOR	D-353
52A1	52A84	D8 TRACTOR	D-342
53A1	UP	977H TRAXCAVATOR	D-333A
54A1	54A124	D4C TRACTOR	D-330
55A1	55A312	D4C TRACTOR	D-330
56A1	UP	D6C TRACTOR	D-333A
57A1	UP	D6B TRACTOR	D-333A
59A1	59A5147	922 TRAXCAVATOR	D-311
60A1	UP	955H TRAXCAVATOR	D-330

SERIAL NUMBER TO MODEL NUMBER GUIDE-EARLY

SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
61A1	61A107	983H PIPELAYER	D-342
61A108	UP	983H PIPELAYER	D-342
62A1	UP	561B PIPELAYER	D-333A
64A1	UP	571 PIPELAYER	D-339
65A1	UP	572E PIPELAYER	D-339
66A1	UP	D9 TRACTOR	D-353
67A1	67A1576	D4D TRACTOR	D-330
68A1	UP	D8 TRACTOR	D-342
69A1	69A873	D4C TRACTOR	D-330
70A1	UP	944 WHEEL LOADER	D-330
71A1	UP	D6C TRACTOR	D-333A
72A1	72A3240	955H TRAXCAVATOR	D-330
73A1	UP	D6C TRACTOR	D-333A
74A1	74A3108	D6C TRACTOR	D-333A
75A1	UP	966C WHEEL LOADER	D-333A
76A1	76A6061	D6C TRACTOR	D-333A
77A1	UP	955H TRAXCAVATOR	D-330
78A1	UP	D4D TRACTOR	D-330
79A1	79A123	D7E TRACTOR	D-339
82A1	UP	D6C TRACTOR	D-333A
83A1	UP	D6C TRACTOR	D-333A
84A1	UP	777 TRUCK ENGINE	D-348
85A1	UP	D4D TRACTOR	D-330
86A1	UP	D4D TRACTOR	D-330
87A1	UP	988 WHEEL LDR, TRAX	D-343
88A1	88A1124	D4D TRACTOR	D-330
89A1	UP	951 TRAXCAVATOR	D-330
90A1	90A3142	950 WHEEL LOADER	D-330
91A1	91A1518	D4D TRACTOR	D-330
92A1	92A2576	951 TRAXCAVATOR	D-330
93A1	93A992	955H TRAXCAVATOR	D-330
94A1	94A3929	922B WHEEL LOADER	D-330
95A1	95A319	D7E TRACTOR	D-339
96A1	96A892	D6C TRACTOR	D-333A
97A1	97A1235	922B WHEEL LOADER	D-330
98A1	98A592	D5 TRACTOR	D-333A
99A1	99A491	950 WHEEL LOADER	D-330
2B1	2B4363	D330C ENGINE	D-330C
2B4364	UP	3304 ENGINE	3304
4B1	4B6031	D330C ENGINE	D-330C
4B6032	UP	3304 ENGINE	3304
5B1		D330C ENGINE	D-330C
5B1197	UP	3304 ENGINE	3304
28B1	28B504	D13000 ENGINE	D-13000
29B1	29B41	D13000 DSL ELECT SET	D-13000
30B1	30B69	D13000 MARINE ENGINE	D-13000
31B1	UP	D342 ENGINE	D-342
31B2478	UP	D342C ENGINE	D-342C

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SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
32B1	UP	D342 MARINE ENGINE	D-342
32B1540	UP	D342C MARINE ENGINE	D-342C
33B1	33B4543	D343 MARINE ENGINE	D-343
34B1	34B1664	D339 ENGINE	D-339
35B1	UP	D339 ENGINE	D-399
36B1	UP	1140 TRUCK ENGINE	1140
45B1	45B1494	D318G ENGINE	D-318G
46B1	UP	D353 ENGINE	D-353C
46B00670	UP	D353 ENGINE	D-353D
47B1	UP	D353 MARINE ENGINE	D-353C
47B00470	UP	D353 MARINE ENGINE	D-353D
48B1	48B756	D315G ENGINE	D-315
49B1	UP	D342C ENGINE	D-342C
50B1	UP	D342C ENGINE	D-342C
51B1	UP	D311H ENGINE	D-311
52B1	52B372	D315G ENGINE	D-315
53B1	53B498	D318G ENGINE	D-318
54B1	UP	1676 TRUCK ENGINE	1676
55B1	UP	D336 INDUSTRIAL ENGINE	D-336
56B1	56B2971	D330A ENGINE	D-330A
57B1	57B527	D330A MARINE ENGINE	D-330
58B1	58B4556	D333A ENGINE	D-333A
60B1	UP	D336 INDUSTRIAL ENGINE	D-336
61B1	UP	1670 TRUCK ENGINE	1670
62B1	62B10004	D343 ENGINE	D-343
63B1	UP	D320A ENGINE	D320A
64B1	64B311	D353D ENGINE	D-353
64B312	UP	D353D ENGINE	D-353
65B1	UP	1693 TRUCK ENGINE	1693
66B1	UP	D398 & G398 ENGINE	D-398
67B1	UP	D398 MARINE ENGINE	D-398
68B1	UP	D379 & G379 ENGINE	D-379
69B1	UP	D379 MARINE ENGINE	D-379
70B1	70B2299	1673B TRUCK ENGINE	1673B
71B1	UP	G342C ENGINE	G-342
72B1	UP	G379 ENGINE	G-379
73B1	UP	G398 ENGINE	G-398
74B1	UP	1673 TRUCK ENGINE	1673
75B1	UP	D398 ENGINE	D-398B
76B1	76B415	D379 INDUSTRIAL ENGINE	D-379B
77B1	UP	D353 ENGINE	D-353E
78B1	UP	1673B TRUCK ENGINE	1673B
79B1	79B2631	D333B ENGINE	D-333B
80B1	80B716	D333B MARINE ENGINE	D-333A
81B1	81B255	D330B ENGINE	D-330B
82B1	82B287	D330B MARINE ENGINE	D-330B
83B1	83B158	1673 TRUCK ENGINE	1673
84B1	UP	G333 NATURAL GAS ENG	G-333A

SERIAL NUMBER TO MODEL NUMBER GUIDE-EARLY

SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
85B1	85B2179	D330A ENGINE	D-330A
86B1	UP	D330 MARINE ENGINE	D-330A
87B1	UP	D333A ENGINE	D-333A
88B1	UP	D333 MARINE ENGINE	D-333A
90B1	90B1095	D6C TRACTOR	D-333C
91B1	UP	D399 MARINE ENGINE	D-399
92B1	92B1387	D334 ENGINE	D-334
93B1	93B1026	D334 MARINE ENGINE	D-334
94B1	UP	1674 TRUCK ENGINE	1674
95B1	UP	1160 TRUCK ENGINE D.I.	1160
96B1	UP	1150 TRUCK ENGINE	1150
97B1	UP	1145 TRUCK ENGINE D.I.	1145
98B1	UP	D330B ENGINE	D-330B
99B1	UP	D330B MARINE ENGINE	D-330B
22C1	22C1855	D4D TRACTOR	D-330
23C1	23C739	D333C ENGINE	D-333C
23C740	UP	3306 ENGINE	3306
49C1	UP	G399 NATURAL GAS ENGINE	G-399
64C1	64C801	NO. 14B MOTOR GRADER	N/A
79C1	79C196	NO. 212 MOTOR GRADER	D-311
80C1	80C1008	NO. 12 MOTOR GRADER	N/A
81C1	81C359	NO. 112 MOTOR GRADER	D-315
94C1	94C361	NO. 12 MOTOR GRADER	D-318
46D1	UP	NO. 112F MOTOR GRADER	D-330
66D1	66D8890	D333C ENGINE	D-333C
66D8891	UP	3306 ENGINE	3306
67D1	67D1102	D333C MARINE ENGINE	D-333C
67D1103	UP	3306 MARINE ENGINE	3306
68D1	68D1349	G333 NATURAL GAS ENGINE	G-333C
68D1350	UP	3306 NATURAL GAS ENGINE	G-3306
69D1	UP	1673C TRUCK ENGINE	1673C
70D1	70D4309	NO. 12 MOTOR GRADER	N/A
71D1	71D742	NO. 12 MOTOR GRADER	N/A
5E9001	5E9500	D17000 ENGINE	D-17000
38E1	38E404	NO. 12 MOTOR GRADER	N/A
41E1	UP	830 M WHEEL TRACTOR	D-342
43E1	UP	834 WHEEL TRACTOR	D-343
68E1	6831377	NO. 112 E MOTOR GRADER	D-330
75E1	75E480	D7E TRACTOR	D-339
75E580		D7E TRACTOR	D-339
78E1	78E127	NO. 14B MOTOR GRADER	N/A
91E1	91E925	D7F TRACTOR	D-333C
92E1	92E1751	D7F TRACTOR	D-333C
99E1	99E14179	NO. 12 E MOTOR GRADER	D-333A
2F580		TWENTY-TWO TRACTOR	D-8800
7F8760		NO. 2S BULLDOZER	D-8800
9F2790		NO. 2S BULLDOZER	D-13000
12F1	UP	NO. 12 E MOTOR GRADER	D-333A

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SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
15F1	15F256	951B TRAXCAVATOR	D-330
21F1	UP	NO. 12 E MOTOR GRADER	D-333A
32F1	32F1196	951B TRAXCAVATOR	D-330C
35F1	35F1264	NO. 14 C MOTOR GRADER	D-333A
51F1	51F782	631 TRACTOR	D-343
52F1	52F205	630 TRACTOR	D-343
55F1	UP	140 MOTOR GRADER	D-333C
61F1	UP	619C WHEEL TRACTOR	D-340T
62F1	UP	619C WHEEL TRACTOR	D-340T
63F1	UP	650 TRACTOR	D-346
64F1	UP	641 WHEEL TRACTOR	D-346
77F1	UP	WHEEL TRACTORS 650, 660, 666	D-346
82F1	82F775	112F MOTOR GRADER	D-330
90F1	90F175	660 WHEEL TRACTOR	D-346
96F1	96F2072	NO. 14 D MOTOR GRADER	D-333A
97F1	UP	D4D TRACTOR	D-330C
99F1	UP	769 TRUCK	D-343
4G1	4G9999	D4 TRACTOR	D-4400
6G931	6G5383	THIRTY TRACTOR	D-4400
13G1	UP	631B WHEEL TRACTOR	D-343
14G1	UP	630B WHEEL TRACTOR	D-343
19G1	UP	657 SCRAPER	D-343
20G1	UP	666 SCRAPER	D-343
29G1	29G268	824 WHEEL TRACTOR	3406
31G1	31G578	657 WHEEL TRACTOR	D-343
33G1	UP	651 WHEEL TRACTOR	D-346
49G1	UP	NO. 16 MOTOR GRADER	D-343
61G1	UP	D7F TRACTOR	D-333C
63G1	UP	773 TRUCK	D-346
72G1	UP	14 E MOTOR GRADER	D-333
73G1	UP	12 F MOTOR GRADER	D-333A
78G1	78G1000	966C WHEEL LOADER	D-333C
89G1	UP	NO. 12 MOTOR GRADER	D-333A
91G1	UP	112E MOTOR GRADER	D-330
99G1	UP	14E MOTOR GRADER	D-333A
1H2409	1H9999	D8 TRACTOR	D-13000
4H1	4H500	D4400 ENGINE	D-4400
4H8001	4H9000	D4600 ENGINE	D-4600
4H9001	4H9999	D4400 ENGINE	D-4400
19H1	19H1968	951C TRAXCAVATOR	D-330C, 3304
23H1	UP	621 2-WHEEL TRACTOR	D-336, 1676
36H1	UP	824B WHEEL TRACTOR	D-343
37H1	37H748	D6B TRACTOR	D-333A
38H1	38H751	D6B TRACTOR	D-333A
42H1	UP	980 WHEEL LOADER	D-336, 1676
44H1	UP	D4 TRACTOR	D-330C, 3304
45H1	UP	779 TRUCK	D-348
46H1	UP	977K TRAXCAVATOR	D-333A

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SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
47H1	UP	D4D TRACTOR	D-330C, 3304
48H1	UP	955K TRAXCAVATOR	D-330
51H1	UP	D5 TRACTOR	D-333A
52H1	UP	D5 TRACTOR	D-333A
57H1	UP	966C WHEEL LOADER	D-333A
58H1	58H520	950 TRAXCAVATOR	D-330
59H1	59H528	12 F MOTOR GRADER	D-333A
60H1	UP	NO. 120 MOTOR GRADER	D-333A
61H1	UP	955K TRAXCAVATOR	D-330
62H1	UP	594 PIPELAYER	D-353
64H1	UP	666 4-WHEEL TRACTOR	D-343
69H1	UP	951B TRAXCAVATOR	D-330C, 3304
70H1	UP	941 TRAXCAVATOR	D-330C, 3304
72H1	UP	112 E MOTOR GRADER	D-330
74H1	UP	112 F MOTOR GRADER	D-330
75H1	UP	941 TRAXCAVATOR	D-330C, 3304
76H1	76H298	977K TRAXCAVATOR	D-333A
79H1	UP	951B TRAXCAVATOR	D-330
80H1	UP	941 TRAXCAVATOR	D-330C, 3304
81H1	UP	D5 TRACTOR	D-333A
82H1	UP	D5 TRACTOR	D-333A
83H1	83H445	D5 TRACTOR	D-333A
84H1	84H809	D5 TRACTOR	D-333A
85H1	UP	561C TRAXCAVATOR	D-333A
89H1	89H1386	12 F MOTOR GRADER	D-333C
3J1	3J8800	D2 TRACTOR (40" GUAGE)	D-3400
4J1	4J1185	R2 TRACTOR (40" GUAGE)	D-3400
5J1	5J10581	D2 TRACTOR (40" GUAGE)	D-3400
6J1	6J1150	R2 TRACTOR (40" GUAGE)	D-3400
7J1	7J9999	D4 TRACTOR	D-4400
9J2001	9J3000	D8800 ENGINE	D-8800
9J4001	9J5000	D3400 ENGINE	D-3400
9J7577	9J8000	D13000 MARINE ENGINE	D-13000
9J8501	9J9000	D17000 MARINE ENGINE	D-17000
15J1	UP	950 WHEEL LOADER	D-330
18J1	UP	D4D TRACTOR	D-330
20J1	UP	D4D TRACTOR	D-330
21J1	UP	D5 TRACTOR	D-333A
31J1	31J792	955K TRAXCAVATOR	D-330
36J1	UP	D348 ENGINE	D-348
37J1	37J461	D5 TRACTOR	D-333A
38J1	UP	D348 MARINE ENGINE	D-348
39J1	UP	D346 ENGINE	D-346
40J1	UP	D346 MARINE ENGINE	D-346
41J1	UP	920 WHEEL LOADER	D-330C, 3304
42J1	UP	966C WHEEL LOADER	D-333C
43J1	UP	950 WHEEL LOADER	D-330C
44J1	UP	633 2-WHEEL TRACTOR	D-343

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SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
46J1	46J868	D6C TRACTOR	D-333C
47J1	47J2559	D6C TRACTOR	D-333C
48J1	UP	977K TRAXCAVATOR	D-333
49J1	UP	D4D TRACTOR	D-330C, 3304
54J1	UP	D5 TRACTOR	D-333
55J1	UP	D6C TRACTOR	D-333
56J1	UP	D6C TRACTOR	D-333
58J1	UP	D4D TRACTOR	D-330
59J1	UP	D4D TRACTOR	D-330
60J1	UP	D4D TRACTOR	D-330C, 3304
61J1	UP	D4D TRACTOR	D-330C, 3304
62J1	UP	D5 TRACTOR	D-333
63J1	UP	D5 TRACTOR	D-333
64J1	UP	955K TRAXCAVATOR	D-330C, 3304
65J1	UP	D4D TRACTOR	D-330C, 3304
66J1	UP	D4D TRACTOR	D-330C
67J1	67J845	D5 TRACTOR	D-333C
68J1	68J2461	D5 TRACTOR	D-333C
69J1	69J2538	D6C TRACTOR	D-333C
70J1	70J2222	977K TRAXCAVATOR	D-333
71J1	71J4557	955K TRAXCAVATOR	D-330C
72J1	72J1952	951B TRAXCAVATOR	D-330C
73J1	73J3956	950 WHEEL LOADER	D-330C
74J1	74J1980	922B WHEEL LOADER	D-330C
75J1	75J2156	920 WHEEL LOADER	D-330C
76J1	76J5482	966C WHEEL LOADER	D-333
77J1	UP	944 WHEEL LOADER	D-330C
78J1	78J616	951B TRAXCAVATOR	D-330
79J1	UP	930 WHEEL LOADER	D-330C, 3304
80J1	UP	112 F MOTOR GRADER	D-330C, 3304
81J1	UP	950 WHEEL LOADER	D-330C, 3304
82J1	UP	D4D TRACTOR	D-330C
83J1	UP	D4D TRACTOR	D-330C
84J1	UP	D4 TRACTOR	D-330C
85J1	UP	955K TRAXCAVATOR	D-330C
86J1	UP	951B TRAXCAVATOR	D-330C
87J1	UP	944 WHEEL LOADER	D-330C
88J1	UP	922B WHEEL LOADER	D-330C
89J1	UP	112 F MOTOR GRADER	D-330C
90J1	UP	D9G TRACTOR	D-353
91J1	UP	D9G TRACTOR	D-353
92J1	UP	561 PIPELAYER	D-333C
93J1	UP	D5 TRACTOR	D-333C
94J1	UP	D5 TRACTOR	D-333C
95J1	UP	D5 TRACTOR	D-333C
96J1	UP	D5 TRACTOR	D-333C
97J1	UP	D5 TRACTOR	D-333C
98J1	UP	D5 TRACTOR	D-333C

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SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
99J1	UP	D6C TRACTOR	D-333C
9K1	9K9999	NO. 12 MOTOR GRADER	D-4600
10K1	UP	D6C TRACTOR	D-333
11K1	UP	977K TRAXCAVATOR	D-333A
12K1	UP	14E MOTOR GRADER	D-333
13K1	UP	12F MOTOR GRADER	D-333
14K1	UP	120 MOTOR GRADER	D-333
17K1	UP	12E MOTOR GRADER	D-333
25K1	UP	992 WHEEL LOADER	D-348
26K1	26K1144	D6C TRACTOR	D-333
30K1	UP	966C WHEEL LOADER	D-333
31K1	UP	950 WHEEL LOADER	D-330C, 3304
32K1	UP	977 RIPPER, 235 EXCAV.	D-333
33K1	UP	12F MOTOR GRADER	D-333
35K1	UP	120 MOTOR GRADER	D-333
38K1	UP	983 TRAXCAVATOR	D-343
41K1	UP	930 WHEEL LOADER	D-330C
50K1	UP	627 SCRAPER	D-333
53K1	UP	657 SCRAPER	D-343
54K1	UP	627 2-WHEEL TRACTOR	D-333
57K1	UP	D348 VEHICULAR ENGINE	D-348
58K1	UP	660-650 4-WHEEL TRACTOR	D-346
62K1	UP	920 WHEEL LOADER	D-330C
63K1	UP	951 TRAXCAVATOR	D-330C
65K1	UP	641B 2-WHEEL TRACTOR	D-346
66K1	UP	666B 4-WHEEL TRACTOR	D-346
67K1	UP	651 2-WHEEL TRACTOR	D-346
68K1	UP	657B 2-WHEEL TRACTOR	D-346
69K1	UP	D4D TRACTOR	D-330C
1L1	1L494	1673 DIESEL TRUCK ENGINE	1673
1L2420SP		ENGINE ARR.	D-13000
1L9770SP		ENGINE ARR.	D-339
4L5361		D343 ENGINE ARR. FOR GARDNER	D-343
4L5522		D343 ENGINE ARR. FOR GARDNER	D-343
8L1706	8L1707	D343 ENGINE ARR. FOR GARDNER	D-343
9L3571		ENGINE ARR. FOR FORD	D-333A
1M1	1M299	NO. 212 MOTOR GRADER	D-3400
2M1	2M1516	NO. 112 MOTOR GRADER	D-4400
3M1	3M117	NO. 112 MOTOR GRADER	D-4400
4M1	4M33	NO. 112 MOTOR GRADER	D-4400
5M1	5M75	NO. 112 MOTOR GRADER	D-4400
6M1	6M56	NO. 12 MOTOR GRADER	D-4600
7M1	7M9999	D7 TRACTOR	D-8800
8M1	8M89	NO. 212 MOTOR GRADER	D-3400
41M1	UP	641 2-WHEEL LOADER	D-346
44M1	UP	651 2-WHEEL TRACTOR	D-346
46M1	46M177	657 TRACTOR	D-343
47M1	UP	657 SCRAPER	D-343

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SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
60M1	UP	3412 MARINE SCRAPER	3412
61M1	UP	12G MOTOR GRADER	D-333
64M1	UP	637 SCRAPER	D-333
65M1	65M405	637 WHEEL TRACTOR	D-343
66M1	UP	633C 2- WHEEL TRACTOR	D-343
67M1	UP	631C 2- WHEEL TRACTOR	D-343
68M1	UP	627 2- WHEEL TRACTOR	D-333
69M1	UP	627 SCRAPER	D-333
71M1	UP	613 2- WHEEL TRACTOR	1145
96M1	UP	INDUSTRIAL ENGINE D.I.	1145
97M1	UP	3150 INDUSTRIAL ENGINE D.I.	3150
98M1	UP	3160 INDUSTRIAL ENGINE D.I.	3160
1N1	1N758	D4600 MARINE ENGINE	D-4600
1N1491	1N2000	D13000 ENGINE	D-13000
1N2001	1N3000	DW10 TRACTOR	D-4600
1N3001	1N3504	D468 AUTOMOTIVE ENGINE	D-4600
1N4001	1N4352	D4400 MARINE ENGINE	D-4400
1N6001	1N6020	D312 AUTOMOTIVE ENGINE	D-4400
1N7001	1N7216	D3400 MARINE ENGINE	D-3400
1N8001	1N8925	D8800 MARINE ENGINE	D-8800
1N9001	1N9999	D13000 ENGINE	D-13000
1N1054SP	1N1055SP	D13000 ENGINE ARR.	D-13000
1N1283SP	1N1488SP	D13000 ENGINE ARR.	D-13000
1N1818SP	1N1998SP	D13000 ENGINE ARR.	D-13000
1N9004SP	1N9912SP	D13000 ENGINE ARR.	D-13000
10N1	UP	WHEEL LOADER 910	3204
3N1	UP	3306 ENGINE	3306
29N1	UP	D9G TRACTOR	D-353
30N1	UP	D9G TRACTOR	D-353
43N1	UP	825B COMPACTOR	D-343
44N1	UP	835 COMPACTOR	D-343
90N1	90N6120	3208 INDUSTRIAL ENGINE	3208
90N6121	UP	3208 INDUSTRIAL ENGINE	3208
91N1	UP	637 SCRAPER	D-333
92N1	UP	637 SCRAPER	D-333
93N1	93N1174	D7F TRACTOR	D-333
94N1	94N5191	D7F TRACTOR	D-333
95N1	UP	571F PIPELAYER	D-333
96N1	UP	572F PIPELAYER	D-333
97N1	97N296	G343 ENGINE	G-343
98N1	UP	D346 TRUCK ENGINE	D-346
46P1	UP	623B 2-WHEEL TRAC PS	3208
61P1	UP	D349 INDUSTRIAL ENGINE	D-349
62P1	UP	D349 MARINE ENGINE	D-349
65P1	UP	3145 ELECTRIC SET	1140-45
66P1	UP	3150 ELECTRIC SET	1140-45
67P1	UP	3160 ELECTRIC SET	1140-45
68P1	UP	3160 MARINE ENGINE	1140-45

SERIAL NUMBER TO MODEL NUMBER GUIDE-EARLY

SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
78P1	UP	931 TRAXCAVATOR	3304
78P1	UP	3304 VEHICULAR ENGINE	D-330C
78P18799	UP	518 SKIDDER	D-330C
79P1	79P450	637 TRACTOR	D-343
89P1	UP	980 WHEEL LOADER	D-333
90P1	90P172	814 WHEEL LOADER	D-333
91P1	91P400	815 COMPACTOR	D-333
1R1	1R1130	NO. 212 MOTOR GRADER	D-3400
3R2001	3R3000	D4400 ENGINE	D-4400
3R4001	3R5000	D4600 ENGINE	D-4600
3RR6001	3R7000	D3400 ENGINE	D-3400
3R7001	3R9999	D13000 ENGINE	D-13000
3R7042SP	3R9994SP	D13000 ENGINE ARR.	D-13000
4R1	4R3633	D6 TRACTOR	D-4600
5R1	5R5515	D6 TRACTOR	D-4600
6R1	UP	D5LGP TRACTOR	D-333
7R1	UP	D4LGP TRACTOR	D-330C
8R1	8R9999	D8 TRACTOR	D-13000
10R1	UP	120 MOTOR GRADER	D-333C
11R1	UP	140 MOTOR GRADER	D-333C
12R1	UP	D5 TRACTOR	D-333C
14R1	UP	814 WHEEL TRACTOR	D-333C
15R1	UP	815 COMPACTOR	D-333C
17R1	UP	D6CSA TRACTOR	D-333C
22R1	UP	120 MOTOR GRADER	D-333C
24R1	UP	140 MOTOR GRADER	D-333C
28R1	UP	627B SCRAPER PUSH/ PULL PS	D-333C
32R1	UP	D349 TRUCK ENGINE	D-349
70R1	UP	D333C, INDUSTRIAL	D-333C
76R1	76R273	1673 TRUCK ENGINE	1673
76R371	UP	3306 ENGINE	3306
80R1	UP	120 MOTOR GRADER	D-333
92R1	UP	G348 ENGINE	G-348
93R1	UP	G349 ENGINE	G-349
1S1	125000	D4400 ENGINE	D-4400
1S5001	1S9999	D4600 ENGINE	D-4600
2S1	2S5000	D8800 ENGINE	D-8800
3S1	3S2000	D17000 ENGINE	D-17000
3S2001	3S7000	D13000 ENGINE	D-13000
3S7001	3S8241	D3400 ENGINE	D-3400
3S2095SP	3S6993SP	D13000 ENGINE	D-13000
4S1	4S1000	D13000 MARINE ENGINE	D-13000
4S1001	4S14102	D13000 ENGINE	D-13000
4S1001SP	UP	D13000 ENGINE	D-13000
5S1	5S1612	D4600 ENGINE	D-4600
6S1	6S105	D4400 ENGINE	D-4400
6S5001	6S9504	D8800 ENGINE	D-8800
7S1	7S1395	D13000 MARINE ENGINE	D-13000

SERIAL NUMBER TO MODEL NUMBER GUIDE-EARLY

SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
7S5001	7S9344	D311 INDUSTRIAL ENGINE	D-311
8S5001	8S7791	D17000 ENGINE	D-17000
9S1	9S172	D311 MARINE ENGINE	D-311
9S5001	9S9257	D315 ENGINE	D-315
9S9258	9S13357	D315 ENGINE	D-315
11S1	UP	772 TRAC COAL HAULER	D-346
14S1	UP	627B TRACTOR	D-333
15S1	UP	627B WHEEL TRACTOR PUSH PULL	D-333
17S1	UP	D342 VEHICULAR ENGINE	D-342
38S1	UP	3412 ENGINE	3412
40S1	UP	3208 TRUCK ENGINE	3208
50S1	UP	518 SKIDDER	D-330C
51S1	51S128	528 SKIDDER	D-333
79S1	79S76	769 TRUCK	D-343
80S1	UP	772 TRUCK	D-346
98S1	UP	777 TRUCK ENGINE	D-348
1T1	1T1138	D13000 ENGINE	D-13000
1T7001	1T9999	D3400 ENGINE	D-3400
2T1	2T9999	D4 TRACTOR	D-4400
3T1	3T1288058	D7 TRACTOR	D-8800
4T1	4T9999	D7 TRACTOR	D-8800
5T1	5T7411	D4 TRACTOR	D-4400
6T1	6T1054	D7 TRACTOR	D-8800
7T1	7T3099	NO. 12 MOTOR GRADER	D-4600
8T1	8T11251	NO. 12 MOTOR GRADER	D-318
8T11252	8T16360	NO. 12 MOTOR GRADER	D-318
8T16361	8T21904	NO. 12 MOTOR GRADER	N/A
9T1	9T5220	NO. 212 MOTOR GRADER	D-311
1U1	1U368	NO. 212 MOTOR GRADER	D-3400
2U1	2U233537	D8 TRACTOR	D-13000
3U1	3U3959	NO. 112 MOTOR GRADER	D-315
3U3960	3U6851	NO. 112 MOTOR GRADER	D-315
4U1	4U7560	D2 TRACTOR	D-311
5U1	5U18894	D2 TRACTOR	D-311
6U1	UP	D4 TRACTOR	D-315
7U1	UP	D4 TRACTOR	D-315
8U1	8U5951	D6 TRACTOR	D-315
8U5952	8U11045	D6 TRACTOR	D-315
9U1	9U11928	D6 TRACTOR	D-315
9U11929	9U29764	D6 TRACTOR	D-315
12U1	UP	D9 TRACTOR	D-353
13U1	13U764	120 MOTOR GRADER	D-333, 1673, G333
14U1	UP	140 MOTOR GRADER	D-333
40U1	UP	572G PIPELAYER	D-333
49U1	UP	950 TREE HARVESTER	D-330C
52U1	UP	623 WHEEL TRACTOR	D-336
55U1	UP	518 SKIDDER	D-330C
57U1	UP	816 COMPACTOR	D-333

SERIAL NUMBER TO MODEL NUMBER GUIDE-EARLY

SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
58U1	UP	826 COMPACTOR	D-343
64U1	UP	120B MOTOR GRADER	D-333
67U1	UP	3408 ENGINE	3408
69U1	UP	D6C TRACTOR	D-333C
78U1	UP	931 TRAXCAVATOR	3204
80U1	UP	WHEEL LOADER	3204
90U1	90U450	3406 ENGINE	3406
91U1	91U126	3406 ENGINE	3406
92U1	92U12856	3406 ENGINE	3406
93U1	4P	16G MOTOR GRADER	3406
94U1	UP	518 SKIDDER	D-330C
96U1	4P	14G MOTOR GRADER	D-333
97U1	UP	D353 ENGINE	D-353
99U1	UP	3408 MARINE ENGINE	3408
1V1	1V2567	DW10 TRACTOR	D-318
1V2568	1V3033	DW10 TRACTOR	D-318
2V1	2V569	D17000 DSL ELEC SET	D-17000
2V5001	2V6107	D13000 DSL ELEC SET	D-13000
3V1	3V541	D8800 DSL ELEC SET	D-8800
3V5001	3V5644	D318 DSL ELEC SET	D-318
3V5645	3V6166	D318 DSL ELEC SET	D-318
4V1	4V717	D315 DSL ELEC SET	D-315
4V718	4V1472	D315 DSL ELEC SET	D-315
4V5001	4V8015	D311 DSL ELEC SET	D-311
5V1	5V283	D315 MARINE ENGINE	D-315
5V284	5V540	D315 MARINE ENGINE	D-315
5V5001	5V12416	D318 ENGINE	D-318
5V12417	5V19626	D318 ENGINE	D-318
6V1	6V405	D318 MARINE ENGINE	D-318
6V406	6V754	D318 MARINE ENGINE	D-318
6V5001	6V5206	DW10 TRACTOR	D-4800
8V1	8V52	D17000 MARINE ENGINE	D-17000
28V1	UP	3408 ENGINE	3408
37V1	UP	627B SCRAPER	D-333
38V1	UP	627B SCRAPER PUSH/ PULL PS	D-333
45V1	UP	3204 ENGINE	3204
47V1	UP	3306 ENGINE	3306
48V1	UP	3304 ENGINE	3304
49V1	UP	3306 ENGINE	3306
70V1	UP	3406 ENGINE	3406
72V1	UP	140G MOTOR GRADER	D-333
74V1	UP	130G MOTOR GRADER	D-330C
75V1	75V1446	D8K TRACTOR PS	D-342
75V1447	UP	D8K TRACTOR PS	D-342
76V1	UP	D8K TRACTOR	D-342
77V1	UP	D8K TRACTOR	D-342
79V1	UP	3208 VEHICLE ENGINE	3208
81V1	UP	140G MOTOR GRADER	D-333

SERIAL NUMBER TO MODEL NUMBER GUIDE-EARLY

SERIAL NUMBER		MODEL NUMBER	ENGINE
FROM:	TO:		
82V1	UP	120G MOTOR GRADER	D-330C
87V1	UP	120G MOTOR GRADER	D-330C
90V1	UP	D9 TRACTOR	D-353
91V1	UP	D7G TRACTOR	D-333
92V1	UP	D7G TRACTOR	D-333
96V1	UP	594 PIPELAYER	D-342
97V1	UP	D9 TRACTOR	D-353
98V1	UP	D9 TRACTOR	D-353
99V1	UP	D9 TRACTOR	D-353
11W1	UP	120G MOTOR GRADER	D-330C
12W1	UP	130G MOTOR GRADER	D-330C
16W1	UP	5716 PIPELAYER	D-333
38W1	UP	613B 2-WHEEL TRACTOR	3208
3X1	UP	D6D TRACTOR	D-333
4X1	UP	D6D TRACTOR PS	D-333
5X1	UP	D6D TRACTOR DD	D-333
6X1	UP	D6D TRACTOR PS	D-333
22X1	UP	D5B TRACTOR DD	D-333
23X1	UP	D5B TRACTOR DD	D-333
24X1	UP	D5B TRACTOR PS	D-333
25X1	UP	D5B TRACTOR PS	D-333
27X1	UP	D4E TRACTOR DD	D-330C
28X1	UP	D4E TRACTOR PS	D-330C
29X1	UP	D4E TRACTOR DD	D-330C
43X1	UP	D5B TRACTOR DD	D-333
44X1	UP	D5B TRACTOR PS	D-333
45X1	UP	D5B TRACTOR	D-333
46X1	UP	D5B TRACTOR	D-333
68X1	UP	D4E TRACTOR DD	D-330C
69X1	UP	D4E TRACTOR PS	D-330C
70X1	UP	D4E TRACTOR DD-SA	D-330C
71X1	UP	D4E TRACTOR DD	D-330C
72X1	UP	D4E TRACTOR PS	D-330C
2Y1	UP	V30C, V35C, V40C, V45C, V50C LIFT	D-333

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