



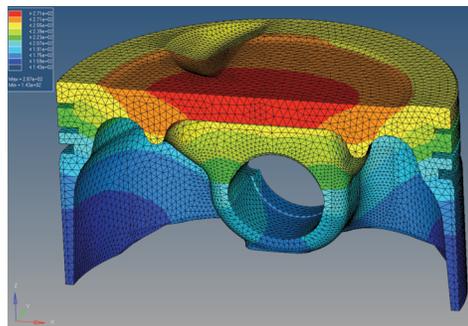
Premium Engine Solutions
BECAUSE DOWNTIME IS NOT AN OPTION.

PISTON TECHNOLOGY FOR LS ENGINE ENVIRONMENT

Pistons for GM 4.8L, 5.3L and 6.0L Engines

GM LS-based engines are found powering full-size pickups and full-size vans. These hard-working engines encounter higher crown temperatures and increased stress brought on by tough workloads and harsh operating environments. Sealed Power pistons feature two technologies to help ensure superior performance in these versatile engines (and other applications as well).*

**GM 6.0L engines are also found in select GM passenger cars.*



Typical temperature distribution used during analysis of piston life expectancy

Fully Machined Valve Reliefs increase accuracy



HARD-ANODIZED PISTON COATING

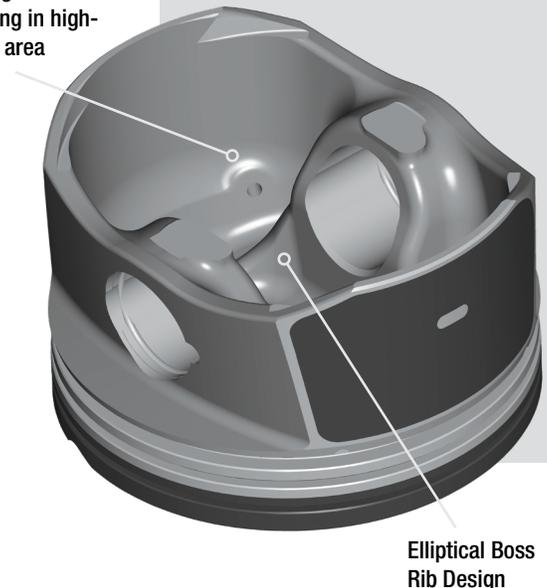
Extreme operating temperatures can result in micro-welding of the top ring, in which the piston material will adhere to the top ring.

In order to combat the effects of extreme temperatures that result in micro-welding, Sealed Power pistons include hard-anodizing of the top ring groove. This coating eliminates micro-welding and decreases ring groove wear by creating a hard, wear-resistant surface.

ELLIPTICAL BOSS RIB DESIGN

Sealed Power Pistons for these applications feature a boss rib design between the pin boss's critical support areas. This design helps draw heat from the crown, while reducing crown temperatures. In addition, it redistributes boss to crown stresses that otherwise concentrate at the intersection of the boss and underside of the crown.

Reinforced oil drainage eliminates cracking in high-stress area



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