
GM 2.4L OHC Ecotec

Value Added Quality Improvements from JASPER

Issue / Concern:

JASPER Solution:

Oil consumption

- Anodized top land and crown provides a thermal barrier and reduces carbon build up.
- JASPER- designed piston increases oil return by 300%.
- JASPER installs a robust, two-piece 2.0mm oil ring for improved oil control
- JASPER uses a steel top ring which includes a PVD coating for longevity and less friction.
- Additional accumulator groove is machined into the piston to decrease the pressure between the first and second ring land, preventing the upper (compression) ring from unseating at higher RPMs.
- 100% installation of synthetic, rubber-based PTFE (polytetrafluoroethylene) valve stem seals.

Dry start-up and piston scuffing

- JASPER-designed piston with graphite coating helps prevent dry start-up and piston scuffing.

Valve guide wear

- 100% installation of upgraded Stellite faced exhaust valves for increased heat resistance and protection against micro welding.
- Valve guides are air gauge tested to verify proper clearance between valve and guide.

Cylinder bore wear/Piston slap

- 100% torque plate honing of engine block, utilizing a torque plate and specially-designed, ARP2000® bolts, provides cylinder wall geometry that matches the cylinder head as a complete running assembly, for improved ring sealing.

Head gasket failure and leaks

- Multi-layer steel (MLS) head gasket installed to reduce head gasket failure.
- 100% installation of NEW head bolts to ensure even clamp load.
- Block and head resurfaced to 50-150 RZ.
- JASPER design piston is De-stroked pistons to prevent detonation.

Timing components

- 100% installation of NEW timing chains and tensioners for longevity.

**3 Year/100,000 Mile
Nationwide
Parts & Labor Warranty**



Remanufactured in the U.S.A.

815 Wernsing Road • P.O. Box 650 • Jasper, IN 47547-0650
(800) 827-7455 • Fax (812) 634-1820 • www.jasperengines.com

Full warranty disclosure available at
www.jasperengines.com or upon request.
Specifications subject to change without notice.

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Low oil pressure / knocking

- Micro-polished cranks are machined to exact tolerances for improved bearing clearance

VVT Failure

- VVT's are hydraulically tested using a state-of-the-art oil-controlled, test stand.

Reliability

- 100% live-run tested to verify proper compression, vacuum and oil pressure.
100% tested intake and exhaust cam actuators to verify proper performance.
100% black light leak tested to ensure the unit is leak free.

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