
GM V8 Gen V 5.3

Value added Quality Improvements from JASPER

Issue / Concern:

JASPER Solution:

Oil consumption issues
(piston & rings)

- JASPER-designed pistons offer profiled ring lands for scuff resistance under load, increased strength to withstand higher combustion pressures, and improved stability to reduce blow-by.
- 100% use of graphite-coated pistons to help prevent scuffing and wear.
- JASPER-designed pistons provide 5 X more oil drain back for better oil control
- Larger 4.00 mm oil control ring assembly provides improved oil scraping when compared to OEM's 3.00 mm.
- Anodized crown and top land promotes better top ring seal and drastically reduces any top ring micro-welding

Oil consumption issues

- Cylinder bores are honed with steel torque plates that are torqued with hardened bolts to simulate cylinder bore distortion, which occurs after head assembly, ensuring correct bore cylindricity.

Main/Rod/Cam Bearing Wear

- 100% installation of a proprietary antifriction, wear resistant polymer coating on all bearings to reduce wear on dry start up and increase longevity.

Low oil pressure

- Dual displacement oil pump is electronically and mechanically tested during the live run test to verify operation and correct oil pressure.
- Hydraulically installed cam bearings provide precise alignment, eliminating distortion of the bearings for improved oil flow and pressure.

Head Gasket Failure

- JASPER installs a thicker, polytetrafluoroethylene (PTFE) coated Multi-layer Steel (MLS) head gasket to maintain OEM compression ratio.
- Block and heads are resurfaced to a 50–150 Rz finish.
- 100% installation of NEW Torque-to-Yield head bolts.

Lifter noise

- Latest-design Active Fuel Management (AFM) lifters are installed to increase oil flow during start-up and reduce lifter noise.

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



Remanufactured in the U.S.A.

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

815 Wernsing Road • P.O. Box 650 • Jasper, IN 47547-0650
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Runability Issues and Leaks

- Oil pump, oil pan, timing cover, and rear cover are installed.
- 100% live-run tested to verify proper compression, vacuum, and oil pressure.
- VVT actuator and/or AFM solenoid function is tested where applicable.
- 100% black light leak tested to ensure the unit is leak free.

Additional JASPER® Benefits

- *JASPER installs a fuel pump drive roller for proper high pressure pump operation.*
- *JASPER includes a finishing gasket set for ease of installation.*

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