

# FORD 4.6 / 5.4 / 6.8

## Value Added Quality Improvements from JASPER

### Issue / Concern:

### JASPER Solution:

Cylinder blow-by

- 100% torque plate boring and honing of engine block utilizing a torque plate and specially-designed ARP2000® head bolts.
- Decreased piston-to-bore tolerances for improved ring sealing.

Oil pressure problems, VVT codes and upper end noise

- Cam clearances are held to a tighter JASPER® standard through the use of CNC boring machines.
- 100% installation of a high volume oil pump, which includes a higher pressure relief valve spring and rigid backing plate for improved oil pressure on 3-valve VVT V8 engines.
- Verification/machining of 3-valve VVT solenoid housings for straightness.
- VVT solenoid housing screen undergoes a thorough ultrasonic and pass through wash process to verify proper oil flow to actuators (screen not available separately).
- 100% NEW installation of the latest design camshaft actuator VVT solenoids (excludes VVT Delete engine option).

Worn VVT actuators

- Installation of new or remanufactured cam gear actuators on 3-valve VVT engines.

Head gasket failure

- MLS head gaskets
- Block and head surfaced to 50-150 RZ
- 100% new head bolts
- Piston compression height reduced to maintain O.E. compression ratios

Spark plug thread concerns

- 100% inspection of all threads.
- Damaged threads replaced with TIME-SERTS®, which allow for increased thread engagement.

Bearing failure, knocking, holes in block

- JASPER oil tolerances are more precise than O.E.
- Micro-polished crank

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



**Remanufactured in the U.S.A.**

Full warranty disclosure available at  
[www.jasperengines.com](http://www.jasperengines.com) or upon request.  
Specifications subject to change without notice.

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(800) 827-7455 • Fax (812) 634-1820 • [www.jasperengines.com](http://www.jasperengines.com)

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Early models: Restrictive oil pipe

- 100% upgrade of early 4.6 DOHC oil pump and screen to high volume pump and large oil tube screen.

VVT Delete

- JASPER offers VVT Delete as an option for the 5.4 engine.
- The VVT Delete engine option will have pre-installed locks in the VVT actuators and also comes with a Livernois programmer.
- The VVT Delete engine option is 50 state legal for 2004-2010 applications and includes a CARB E.O. sticker. 2011-2014 applications are CARB E.O. PENDING.

**\* Note for CNG/LP applications: We install hardened valve seats and Stellite face intake and exhaust valves.**

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