

FORD 4.6 / 5.4 / 6.8

Value Added Quality Improvements from JASPER

Issue / Concern:	JASPER Solution:
Cylinder blow-by	<ul style="list-style-type: none">• 100% torque plate 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	<ul style="list-style-type: none">• 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.• 100% NEW installation of the latest design camshaft actuator VVT solenoids (excludes VVT Delete engine option).
Worn VVT actuators	<ul style="list-style-type: none">• Installation of new or remanufactured cam gear actuators on 3-valve VVT engines.
Head gasket failure	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 100% inspection of all threads.• Damaged threads replaced with TIME-SERTS®, which allow for increased thread engagement.
Bearing failure, knocking, holes in block	<ul style="list-style-type: none">• JASPER oil tolerances are more precise than O.E.• Micro-polished crank
Early models: Restrictive oil pipe	<ul style="list-style-type: none">• 100% upgrade of early 4.6 DOHC oil pump and screen to high volume pump and large oil tube screen.

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

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



Remanufactured in the U.S.A.

815 Wernsing Road • P.O. Box 650 • Jasper, IN 47547-0650
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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 comes with a tuner.
- The VVT Delete engine option is 50 state legal for 2004-2014 applications and includes a CARB E.O. sticker.

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

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