FORD 3.5L DURATEC/ ECOBOOST

Perfecting the Art of Remanufacturing · Since 1942 ·

APPLICATIONS

DURATEC:

Ford: Edge, Taurus, Flex, Fusion

Lincoln: MKX, MKT, MKZ

Mercury: Sable

ECOBOOST:

Ford: F-150, Navigator, Expedition, Transit

JASPER® ENGINES & TRANSMISSIONS GO!®

100% Associate Owned

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JASPER® UPDATES

JASPER® updates all roller design primary chains to the improved silent chain design. This prevents excessive wear that is common with roller chains.

100% installation of the latest design water pump for transverse mounted applications.

JASPER-engineered pistons include a smooth, fully-machined, anodized crown which provides a thermal barrier and reduces carbon buildup.

JASPER's piston design includes additional oil return holes (14 total) to increase oil drain back by 250%, or greater, to reduce oil consumption and prevent oil rings from sticking.

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JASPER® UPDATES

Torque Plate Honing

JASPER's pistons for the Ecoboost engine are forged aluminum and excel in both strength and durability.

JASPER's robust, two-piece, 2.0mm oil ring has improved oil control.

JASPER piston rings include a steel top ring with a large surface area of 1.5mm and a coating for longevity and less friction. An increased axial height on the steel top ring creates better sealing and heat conductivity.

An accumulator groove is machined into the piston to decrease the pressure between the 1st and 2nd ring land, preventing the upper (compression) ring from unseating at higher RPMs.

JASPER's piston skirt surface area is 30% wider to improve durability and promote scuff resistance.

100% torque-plate honing, utilizing a torque plate and ARP2000® bolts, provides cylinder wall geometry that match the cylinder head as a complete running assembly, for improved ring sealing and reduced piston and cylinder wall wear.

Crankshaft Journal Ra Finish

Camshafts are spray welded and machined to exact tolerances. Cam bores are machined with a specially designed, coolant fed CNC machine. These processes ensure precise specifications are met regarding bore alignment, size, and surface finish.

All camshaft lobes receive a Manganese Phosphate coating, providing added wear protection.

JASPER 100% installs a proprietary anti-friction, wear-resistant polymer coating on bearings to reduce dry start-up and increase longevity.

100% installation of high-strength, class 12.9 rod bolts to eliminate stretching, preventing possible bearing failure.

Thicker, fluoroelastomer (FKM) MLS head gaskets are installed, with new head bolts, along with better block and head surface finishes (50-150 Rz), to prevent leaks and maintain the correct compression ratio.

Live-run Tested

Crankshaft rod and main journals are micro polished to an Ra finish of 10 or less for improved bearing oil clearance and reduced wear. Crank seal areas are polished to a finish of 10-20 Ra to prevent leaks and increase seal longevity.

100% installation of NEW nitrided valves on Duratec applications for improved heat resistance and reduced valve guide wear.

JASPER installs an Inconel (Nickel-chromium based super alloy) exhaust valve on Ecoboost applications to compensate for the boosted GDI's increased in-cylinder temperatures and high pressure.

Live-run testing, utilizing data acquisition with other assessments for your assurance of reliability include: compression, vacuum, oil pressure and (VVT) cam actuator testing.

Live-run testing is followed with a blacklight leak test to make sure there are no leaks around gasket and seal areas.

3 Year /100,000 Mile Nationwide | Transferable Warranty

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

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