



**ENGINES AND
TRANSMISSIONS**
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PRODUCT BULLETIN **5.4L FORD**

2004-2012 APPLICATIONS WITH
3 VALVES PER CYLINDER

COATED HYPEREUTECTIC PISTONS RESIST SCUFF-
ING AND DAMAGE TO HEAT MUCH BETTER THAN FACTORY
ALUMINUM PISTONS

MOLY PISTON RINGS REDUCE FRICTION AND CYLINDER
WALL WEAR TO EXTEND THE LIFE OF THE ENGINE

FEL-PRO® REAR MAIN SEALS PROTECT AGAINST
HEAT AND LEAKS

CRANKSHAFTS ARE MICRO-POLISHED TO EXTEND
THE LIFE OF BEARINGS

MULTI-LAYERED STEEL (M.L.S.) HEAD GASKETS
RESIST HEAT AND PREVENT HEAD GASKET LEAKAGES

CONNECTING RODS ARE HONED TO ENSURE UNIFORMI-
TY, AND BENT RODS ARE SCRAPPED (SOME COMPETITORS
WILL BEND RODS BACK INTO PLACE)

CHROME PLATED VALVE STEMS RESIST SCUFFING
AND HEAT FOR GREATER DURABILITY

**EVERY TRI STAR ENGINE IS THOROUGHLY
TESTED PRIOR TO PACKAGING TO ENSURE A
QUALITY PRODUCT.**

THIS "PREMIUM LONG BLOCK" ENGINE INCLUDES THE BLOCK, CRANK,
RODS, BEARINGS, PISTONS, RINGS, CAMSHAFT, CYLINDER HEADS, OIL
PUMP, PICK UP TUBE, TIMING COVER AND OIL PAN INSTALLED.
TO ADDRESS THE MOST COMMON FAILURES OF THIS ENGINE,
ALL TRI STAR 5.4L 3V ENGINES INCLUDE:

- ⇒ UPDATED HIGH VOLUME OIL PUMP
- ⇒ CAM BEARINGS WITH TIGHTER CLEARANCES TO AVOID
VVT OIL PRESSURE PROBLEMS
- ⇒ VVT SCREENS REPLACED 100%
- ⇒ TIMING COVER AND OIL PAN INSTALLED
- ⇒ NEW OE CAM GEARS (VVT ACTUATORS)
- ⇒ TIME-SERTS® FOR DAMAGED SPARK PLUG THREADS

IMPORTANT INSTALLATION WARNINGS

- THE VVT CAM GEAR (ACTUATOR) IS INCLUDED WITH THIS EN-
GINE, BUT THE ELECTRONIC SOLENOIDS THAT CONTROL THE VVT
ARE NOT INCLUDED. IT IS RECOMMENDED TO REPLACE THESE
WITH THE UPDATED VERSION FROM FORD.
- REPLACE/INSPECT ENGINE OIL COOLERS AND INTAKE MANI-
FOLDS TO AVOID CONTAMINATION OF THE NEW ENGINE.



**TRI STAR ENGINES ARE
PROUDLY RE-MANUFACTURED
IN WISCONSIN.**

THIS ENGINE
INCLUDES
TRI STAR'S

**INDUSTRY
LEADING
WARRANTY**

- 3 YEARS - UNLIMITED MILEAGE
- NATIONWIDE AND TRANSFERABLE
- COVERS PARTS AND LABOR UP TO \$50/HR

OPTIONAL 'NO FAULT' SUPPLEMENT

- RAISES LABOR COVERAGE TO UP TO \$70/HR
- COVERS TOWING UP TO \$100
- COVERS CAR RENTAL UP TO \$35/DAY, MAX 10 DAYS
- ADDS 'NO FAULT' COVERAGE

PRIVATE USE VEHICLES UNDER 1 TON. LABOR COVERAGE ONLY APPLIES FOR UNITS
INSTALLED AT LICENSED REPAIR FACILITY. CALL FOR DETAILS.

TRI STAR USES ONLY THE HIGHEST QUALITY BRAND NAMES TO PROVIDE THE MOST DEPENDABLE ENGINES!

