ENGINE OVERVIEW

- RAMPTECH® engine builders always replace 100% of the pistons, rings, bearings, bushings, gaskets, and seals
- All heads get new valves and are vacuum-tested to ensure the quality of the valve job
- All heads are pressure-tested and upgraded to the latest style valve seal
- RAMPTECH® engine builders always grind 100% of the camshafts’ lobes
- All connecting rods are demagnetized
- OEM components are used in all injection pumps
- Core plugs are 100% stainless steel to avoid corrosion
- Blocks, heads and crankshafts are 100% magnaflux-tested to avoid cracked components
- Blocks are resurfaced and have counter bores machined to ensure proper sleeve protrusion and head gasket sealing
- Connecting rods have new bushings installed, and both large and small ends are re-machined to OEM specifications
- Crankshaft is checked for size, reground and polished as required, to OEM specifications

DYNOMETER TESTING

All of RAMPTECH’s Complete Drop-In engines are 100% dyno tested prior to shipment. Computer controls ensure that each dyno test is conducted under standard, repeatable settings. Every engine is run through a warm up cycle, three separate loading segments simulating light, medium and heavy throttle conditions, maximum torque and horsepower tests, both high and low idle tests, and a black light leak detection test with dyed oil, coolant, and fuel.

WITH NEW OEM HEUI INJECTORS

COMPLETE DROP-IN INCLUDES:
- all parts on the Long Block Supreme plus
  - Air crossover tube*  
  - Intake manifold** 
  - Dipstick guide 
  - Complete fuel system (injectors, high and low pressure lines, injection pump and fuel filter assembly) 
  - Turbocharger 
  - Exhaust manifolds 
  - Camshaft Position Sensor

*Where required
**Part of the valve cover on the P series

LONG BLOCK SUPREME INCLUDES:
- Block
- Rods
- Oil cooler
- Valve cover
- Water pump (no pulley)
- Piston/sleeve assemblies
- Timing gears
- Front cover and seal
- Gasket set
- Thermostat housing
- Damper and pulley assembly
- Crankshaft
- Oil pan
- Oil pump
- Pickup tube
- Valve train
- Camshaft
- Head
- Oil filter
- Thermostat
- Water Filter
- Front Engine Mount

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