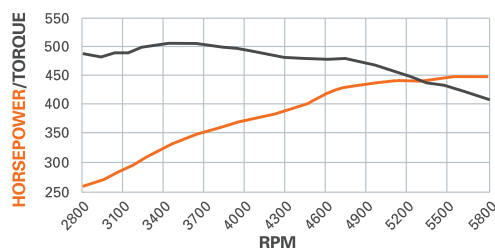


ZZ454/440

19433410 🏁

469 hp
@ 5,500 rpm
519 lb.-ft.
@ 3,700 rpm

DYNO CHART



NOTE: Refer to page 6 for the complete horsepower and torque testing procedures.



Aluminum oval-port heads add power!

Our engineers took the tough 454 HO and matched it with a set of higher-flow, oval-port aluminum cylinder heads to pick up an additional 30 horses and push the torque to a strong 519 lb.-ft. The heads are filled with 2.19/1.88-inch valves that process the airflow through this big-power Big-Block and save weight over iron heads.

Along with the aluminum heads, the ZZ454/440 also features our latest-generation block casting with four-bolt main caps, which is filled with an all-forged rotating assembly for exceptional strength and durability. There's also a high-lift hydraulic roller camshaft for excellent drivability and a broad performance range. The crate engine assembly includes the water pump, balancer, aluminum intake manifold and a 14-inch flexplate. Add the carburetor, starter, ignition system and other accessories to get this big-power Big-Block running.

INSTALLATION NOTES

- Requires addition of carburetor, starter, fuel pump, distributor and ignition system (not included)
- Clutch linkage bosses are now drilled and tapped. When using cast-iron exhaust manifolds, lower head bolts may need to be replaced with bolts with shorter heads, for clearance
- Comes with an externally balanced 14" automatic transmission flexplate; use flywheel P/N 14096987 and 11" clutch assembly for manual transmission applications
- Not intended for marine applications

Mobil 1 is the recommended engine oil for all Chevrolet Performance Engines

TECH SPECS

| | |
|--|------------------------------------|
| Part Number: | 19433410 |
| Engine Type: | Chevy Big-Block V-8 |
| Displacement (cu in): | 454 |
| Bore x Stroke (in): | 4.250 x 4.000 |
| Block (P/N 19170538): | Cast iron with 4-bolt main caps |
| Crankshaft (P/N 14096983): | Forged steel |
| Connecting Rods (P/N 19170198): | Forged steel |
| Pistons (P/N 19433024): | Forged aluminum |
| Intake Manifold (P/N 12363406): | Dual plane |
| Camshaft Type (P/N 24502611): | Hydraulic roller |
| Valve Lift (in): | .510 intake / .540 exhaust |
| Camshaft Duration (@.050 in): | 211° intake / 230° exhaust |
| Cylinder Heads (P/N 19418909): | Aluminum oval port; 110cc chambers |
| Valve Size (in): | 2.190 intake / 1.880 exhaust |
| Compression Ratio: | 9.6:1 |
| Rocker Arms (P/N 12675724): | Stamped steel |
| Rocker Arm Ratio: | 1.7:1 |
| Water Pump (P/N 12708488): | Cast-iron, long-style |
| Recommended Fuel: | Premium pump |
| Ignition Timing: | 36° Total @ 4,000 rpm |
| Maximum Recommended rpm: | 5,500 |
| Balanced: | External |
| Flexplate (P/N 10185034): | 14" |

NOTE: Distributor with melonized steel gear **MUST** be used with long-blocks and partial engines with steel camshafts, or engine damage will occur.



Chevrolet Performance Crate Engines include a 24-month or 50,000-mile/80,000-kilometer limited warranty, whichever comes first. See your GM dealer for details.



Chevrolet Performance does not utilize any used or remanufactured parts in this crate engine, except for the starter, alternator and power steering pump.



This part is intended for competition use only. See page 2 for complete details.