

POWERTRAIN OEM SALES Marine | Industrial | On-Road | Off-Road

5.3L L83

FIVE GENERATIONS OF REFINEMENT

GM engineers spent more than 10 million hours creating this next-gen technology. Every millimeter of the combustion system was carefully designed to support the most ideal combination of Direct Injection, Active Fuel Management, and Variable Valve Timing, making the most of power, torque, and efficiency.

STATE-OF-THE-ART TECHNOLOGIES

Direct Injection Technology:

- Moves the point where fuel feeds into an engine closer to the point where it ignites, enabling greater combustion efficiency.
- Fosters a more complete burn of the fuel in the air-fuel mixture.
- Operates at a lower temperature than conventional port injection.
- Allows the mixture to be leaner, so less fuel is required to produce the equivalent horsepower of a conventional port-injection fuel system.

Active Fuel Management (AFM) Technology:

- Expands the range of operation by more than 10 percent.
- AFM temporarily deactivates four of the cylinders on the V-8 engines under light load conditions effectively operating as a V-4.
- When cylinders are deactivated, the engine's pumping work is reduced, which translates into real-world fuel economy improvements.
- Seamlessly reactivates all cylinders when full power is demanded.

Variable Valve Timing (VVT):

- The dual-equal cam phasing system adjusts camshaft timing at the same rate for both intake and exhaust valves.
- Allows linear delivery of torque, with near-peak levels over a broad rpm range, and high specific output without sacrificing overall engine response.

Variable Displacement Pump:

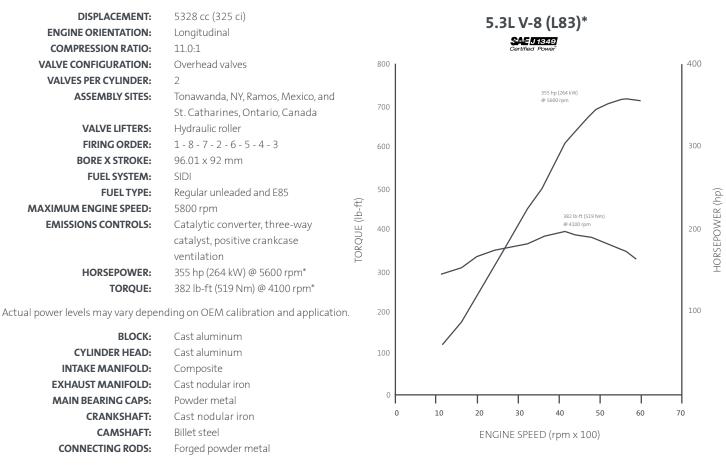
Advanced Oiling System



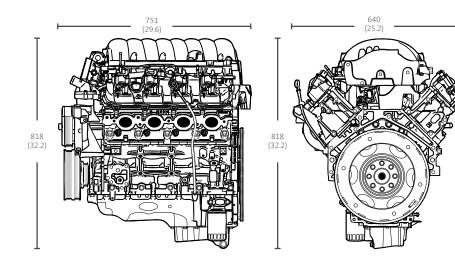
ADDITIONAL FEATURES

- All-new weight-saving aluminum cylinder-block casting
- All-new cylinder head design with new port shape and valve placement
- Increased compression ratios
- Advanced Oiling System variable displacement pump
- High-strength aluminum alloy pistons
- Oil-jet piston cooling
- Stronger, larger-diameter push rods
- High-flow intake manifold and electronic throttle
- Iridium-tipped, extended-life spark plugs
- 58x crank timing

5.3L L83 SPECIFICATIONS



*As tested in Chevrolet Silverado and GMC Sierra.



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