



General Motors

GM Powertrain
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2006 Vortec 6000 6.0L Gen III V8 (LQ4)

Type:	6.0L V-8
Displacement:	5967cc (364 ci)
Compression ratio:	9.4:1
Valve configuration:	overhead valves (2 valves per cylinder)
Assembly site:	Romulus, Mich. Silao, Mexico
Valve lifters:	hydraulic roller
Firing order:	1 - 8 - 7 - 2 - 6 - 5 - 4 - 3
Bore x stroke:	101.6 x 92 mm
Fuel system:	sequential fuel injection
Horsepower:	335 hp (250 kw) @ 5200 rpm (Yukon Denali/Yukon/Yukon XL, Suburban) 325 hp (235 kw) @ 5200 rpm (H2) 300 hp (224 kw) @ 4400 rpm (Savana/Express, 2500 HD and 3500 Sierra and Silverado equal to or greater than 8600 pounds GVW)
Torque:	375 lb-ft (508 Nm) @ 4000 rpm (Yukon Denali/Yukon/Yukon XL, and Suburban) 365 lb-ft (488 Nm) @ 4000 rpm (H2) 360 lb-ft (488 Nm) @ 4000 rpm (Savana/Express, 2500 HD and 3500 Sierra and Silverado equal to or greater than 8600 pounds GVW)
Fuel shut off:	5900 to 6000 rpm
Emissions controls:	evaporative system catalytic converter positive crankcase ventilation returnless fuel system
Applications:	GMC Sierra Denali (1500) GMC Yukon Denali (1500) GMC Yukon XL Denali (1500) Chevrolet Suburban (2500) GMC Yukon XL GMC Sierra 3500 Pickup and Chassis Cab Chevrolet Silverado 3500 Pickup and Chassis Cab GMC Sierra 2500HD and 3500 Chevrolet Silverado 2500HD and 3500 HUMMER H2 Chevrolet Express GMC Savana
MATERIALS	
Block:	cast iron
Cylinder head:	cast aluminum
Intake manifold:	composite
Exhaust manifold:	high silicon molybdenum cast nodular iron
Main bearing caps:	powder metal
Crankshaft:	cast iron with undercut and rolled fillets
Camshaft:	steel
Connecting rods:	forged powder metal
Additional features:	extended life spark plugs extended life coolant oil level sensor Oil Life System electronic throttle control (all applications except Express and Savana non-12 & 15 passenger vans) electronic throttle control on H2, including specific off road (low range) throttle progression calibration compressed natural gas option floating pin pistons GF4 oil rate based diagnostics