

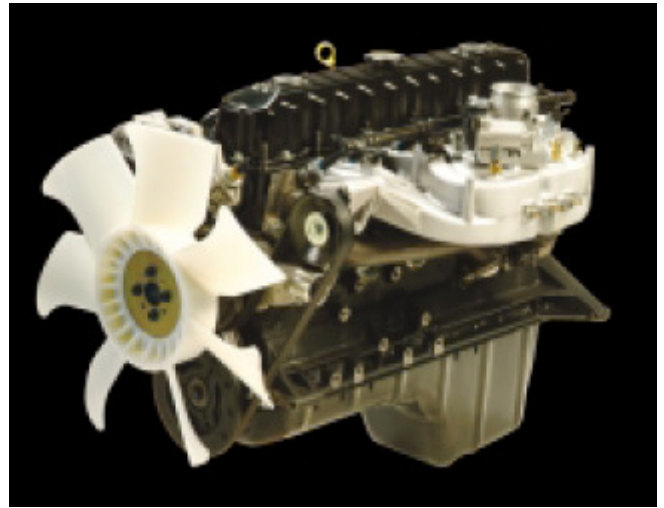
## Gasoline, LPG & Natural Gas Engine

# ZPP 644

4.4 LITER

For industrial applications

**ZPP - THE POWER OF CHOICE**

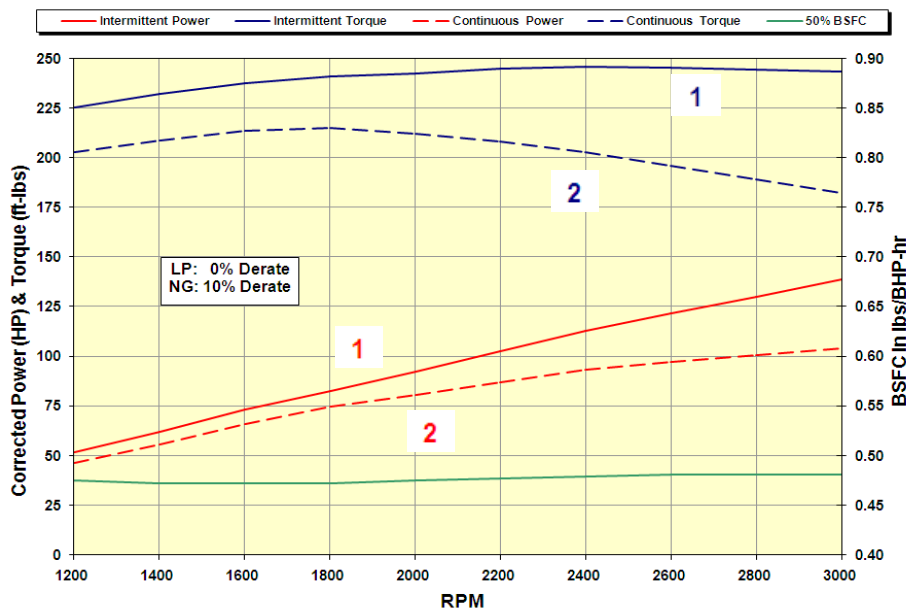


### GENERAL SPECIFICATION

Intermittent Output	139 HP @ 3000 rpm
Continuous Output	104 HP @ 3000 rpm
Peak Torque	246 ft-lbs @ 2200 rpm
Fuel / Delivery	Gasoline / Multi-port - LPG / NG Mixer Type
Engine Configuration	6 Cylinder In-line, OHV
Block Material	Cast Iron
Head Material	Cast Iron
Bore x Stroke (mm)	98.4 x 91.0
Total Piston Displacement	4416 cc
Compression Ratio	9.7 : 1
Length X Width x Height (mm)	1054 x 586 x 810
Dry Weight (excluding shipped lose parts)	193 Kg
Catalyst (2007 emissions compliance)	Remote mounted

*Note: HP and Torque figures shown for 2008 LSI - EPA/CARB certified engine with catalyst*

ZPP-644 Gasoline Power, Torque, & BSFC Curves



#### Curve 1 - Intermittent Gross Output

This is the highest out put obtainable at standard ambient conditions from a basic engine equipped only with the built-in accessories essential to its operation. These levels may be only maintained for operating periods of short duration.

*Applications: Scissor lifts, Aerial platforms, Scrubbers / Sweepers, Utility vehicles, Construction equipment.*

#### Curve 2 - Continuous Gross Output

This is the output that can be obtained at standard ambient conditions from a basic engine, operating in a continuous duty mode.

*Applications: Generator, Welders Water pumps, Gas compressors Carpet cleaners, etc*



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## ENGINE SPECIFICATIONS

General			Physical Data		
Cylinders	6		Length	41.5 in	1054.0 mm
Cylinder Arrangement	Vertical In-line		Width	23.1 in	586.0 mm
Bore size	3.94 in	98.43 mm	Height	31.9 in	810.0 mm
Stroke	3.64 in	90.98 mm	Weight	470 lb	214.0 kg
Cylinder Displacement	42.24 in <sup>3</sup>	692.3 cc	Oil Capacity	6.0 Qt	5.7 L
Total Displacement	269.6 in <sup>3</sup>	4416 cc			
Compression Ratio	9.7 : 1				
Fuel Systems			Electrical		
Gasoline	Multi-port		Starter Motor	12 V - 1.4 Kw	
LPG / NG	Mixer Type		Alternator	12.0 V - 55 A	
Fuel Pressure (gasoline)	3 bar			w/ built in regulator	
Fuel Pressure LPG / NG	< 5 in		Distributor with coil	Non-certified applications	
Fuel Requirement	unleaded gasoline		Hall effect dist. w/ coil	Certified applications	
Fuel Pump	Electric		Cooling		
Electronic Governor	ZEEMS III		Thermostat	180 ° F	82 ° C

