Waukesha* gas engines VHP* Series Four* F3514GSI

493 - 740 BHP (368 - 552 kWb)

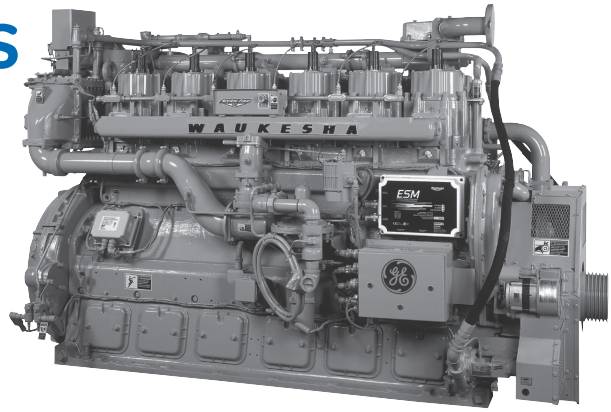

Image is representative of engine model.

GE's Waukesha Series Four rich-burn engines are the engines of choice for the harshest and most demanding gas compression, power generation and mechanical drive applications. The Series Four engines can reliably produce more power on hot field gases, at high altitudes, and in remote locations, all while delivering low emissions when paired with a 3-way catalyst (NSCR).

technical data

Cylinders	Inline 6
Piston displacement	3520 cu. in.(58 L)
Compression ratio	8:1
Bore & stroke	9.375" x 8.5" (238 x 216)
Jacket water system capacity	48.5 gal. (184 L)
Lube oil capacity	72 gal. (273 L)
Starting system	125 - 150 psi air/gas 24V electric

Dimensions l x w x h inch (mm)
123.61 (3140) x 78.94 (2005) x 75.42 (1916)

Weights lb (kg)
16,000 (7,257)

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performance data

Intercooler Water Temperature 130°F (54°C)		1200 RPM	1000 RPM
	Power bhp (kWb)	740 (550)	617 (460)
	BSFC (LHV) Btu/bhp-hr (kJ/kWh)	8168 (11598)	7855 (11110)
	Fuel Consumption Btu/hr x 1000 (kW)	6044 (1772)	4846 (1420)
Emissions	NOx g/bhp-hr (mg/Nm^3 @ 5% O_2)	15.80 (5857)	15.70 (5828)
	CO g/bhp-hr (mg/Nm^3 @ 5% O_2)	12.80 (4743)	12.30 (4544)
	NMHC g/bhp-hr (mg/Nm^3 @ 5% 0_2)	0.16 (59)	0.17 (61)
	THC g/bhp-hr (mg/Nm^3 @ 5% O_2)	0.60 (222)	0.70 (246)
Heat Balance	Heat to Jacket Water Btu/hr x 1000 (kW)	1862 (546)	1503 (440)
	Heat to Lube Oil Btu/hr x 1000 (kW)	285 (84)	227 (67)
	Heat to Intercooler Btu/hr x 1000 (kW)	96 (28)	57 (17)
	Heat to Radiation Btu/hr x 1000 (kW)	365 (107)	325 (95)
	Total Exhaust Heat Btu/hr x 1000 (kW)	1669 (489)	1257 (368)
Intake/ Exhaust System	Induction Air Flow scfm (Nm^3/hr)	1107 (1667)	888 (1337)
	Exhaust Flow lb/hr (kg/hr)	5152 (2337)	4131 (1873)
	Exhaust Temperature °F (°C)	1172 (633)	1106 (597)

All data according to full load and subject to technical development and modification.

Consult your local GE Power's Distributed Power representative for system application assistance. The manufacturer reserves the right to change or modify without notice, the design or equipment specifications as herein set forth without incurring any obligation either with respect to equipment previously sold or in the process of construction except where otherwise specifically guaranteed by the manufacturer.

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