L7044GSI
VHP™ Series Four®
Gas Engine
1120 - 1680 BHP

Model L7044GSI with ESM®
Turbocharged and Intercooled, Twelve Cylinder, Four-Cycle Gas Engine

SPECIFICATIONS

Cylinders
V 12
Piston Displacement
7040 cu. in. (115 L)
Bore & Stroke
9.375” x 8.5”
(238 x 216 mm)
Compression Ratio
8:1
Jacket Water System Capacity
107 gal. (405 L)

Lube Oil Capacity
90 gal. (340 L)
Starting System
125 - 150 psi air/gas
24 V electric
Dry Weight
21,000 lb. (9,525 kg)

Engine shown with options.
POWER RATINGS: L7044GSI VHP™ SERIES FOUR® GAS ENGINE

<table>
<thead>
<tr>
<th>Model</th>
<th>I.C. Water Inlet Temp. °F (°C) (Tcra)</th>
<th>C.R.</th>
<th>800 rpm</th>
<th>900 rpm</th>
<th>1000 rpm</th>
<th>1200 rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>L7044GSI</td>
<td>130° (54°)</td>
<td>8:1</td>
<td>1120 (835)</td>
<td>1260 (940)</td>
<td>1400 (1044)</td>
<td>1680 (1253)</td>
</tr>
</tbody>
</table>

**Rating Standard:** All models: Ratings are based on ISO 3046/1-1995 with mechanical efficiency of 90% and auxiliary water temperature Tcra (clause 10.1) as specified above limited to ± 10° F (± 5° C). Ratings are also valid for SAE J1349, BS5514, DIN6271 and AP17B-11C standard atmospheric conditions.

**ISO Standard Power/Continuous Power Rating:** The highest load and speed which can be applied 24 hours a day, seven days a week, 365 days per year except for normal maintenance. It is permissible to operate the engine at up to 10% overload, or maximum load indicated by the intermittent rating, whichever is lower, for two hours in each 24 hour period.

All natural gas engine ratings are based on a fuel of 900 Btu/ft³ (35.3 MJ/m³) SLHV value, with a 91 Waukesha Knock Index®.

For conditions or fuels other than standard, contact the Waukesha Engine Sales Engineering Department.

**PERFORMANCE: L7044GSI VHP™ SERIES FOUR® GAS ENGINE**

<table>
<thead>
<tr>
<th>RPM</th>
<th>130° F I.C. Water Temperature</th>
<th>Brake Horsepower (kWb Output)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Catalyst Settings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power (Bhp)</td>
<td>1200</td>
<td>1000</td>
</tr>
<tr>
<td>BSFC (Btu/bhp-hr)</td>
<td>775</td>
<td>757</td>
</tr>
<tr>
<td>NOx (grams/bhp-hr)</td>
<td>13.3</td>
<td>12.9</td>
</tr>
<tr>
<td>CO (grams/bhp-hr)</td>
<td>11.2</td>
<td>9.4</td>
</tr>
<tr>
<td>NMHC (grams/bhp-hr)</td>
<td>0.21</td>
<td>0.21</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>RPM</th>
<th>54° C</th>
<th>Brake Horsepower (kWb Output)</th>
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<tbody>
<tr>
<td>Pre-Catalyst Settings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power (kWb)</td>
<td>1200</td>
<td>1000</td>
</tr>
<tr>
<td>BSFC (kJ/kW-hr)</td>
<td>10970</td>
<td>10715</td>
</tr>
<tr>
<td>NOx (g/nm³)</td>
<td>4.9</td>
<td>4.8</td>
</tr>
<tr>
<td>CO (g/nm³)</td>
<td>4.2</td>
<td>3.5</td>
</tr>
<tr>
<td>NMHC (g/nm³)</td>
<td>0.08</td>
<td>0.08</td>
</tr>
</tbody>
</table>

**NOTES:**

1) Fuel consumption and exhaust emissions are based on ISO 3046/1-1995 standard reference conditions and commercial quality natural gas of 900 Btu/ft³ (35.38 MJ/m³) saturated lower heat value, Waukesha Knock Index® of 91 and 93% methane content by volume. ISO 3046/1-1995 standard reference conditions are 77°F (25°C) ambient temperature, 29.54 inches Hg (100 kPa) barometric pressure, 30% relative humidity (1kPa/0.3 inches Hg water vapor pressure).

2) S.I. exhaust emissions are corrected to 5% O₂ (0°C and 101.325 kPa).

3) Data will vary due to variations in site conditions. For conditions and/or fuels other than standard, consult the Waukesha Engine Sales Engineering Department.

4) Fuel consumption based on ISO 3046/1-1995 with a +5% tolerance for commercial quality natural gas having a 900 Btu/ft³ saturated low heat value.

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