

SPECIFICATIONS 1

MODEL — L7042G

BASIC MODEL SPECIFICATIONS

Type.....	4-cycle, overhead valve
Aspiration.....	Natural
Number of cylinders.....	V-12
Bore x stroke.....	9.375 x 8.50 in. (238 x 216 mm)
Displacement.....	7040 cu. in. (115.4 liters)
Compression ratio - natural gas standard ratio / HD-5 propane.....	8:1
Compression ratio - natural gas high ratio.....	10:1
Speed range.....	400 - 1200 rpm continuous / 400 - 1200 rpm intermittent duty
Mean piston speed @ 1200 rpm.....	1700 ft./min. (8.64 m/sec)
Low idle.....	450 rpm
Flywheel housing - SAE No.....	00

BEARINGS - MAIN

Number.....	7
Diameter x width (front).....	6.25 x 4.125 in. (159 x 105 mm)
Diameter x width (intermediate).....	6.25 x 3.00 in. (159 x 76 mm)
Diameter x width (center).....	6.25 x 4.125 in. (159 x 105 mm)
Diameter x width (rear).....	6.25 x 4.125 in. (159 x 105 mm)
Total main bearing projected area.....	152.3 sq. in. (982 sq. cm)

BEARING - CRANKPIN

Diameter x width.....	6.25 x 2.50 in. (159 x 64 mm)
Total crankpin projected area.....	187.5 sq. in. (1210 sq. cm)

COOLING SYSTEM

Jacket capacity, engine only.....	100 gal. (379 liters)
Maximum jacket water pump, inlet head.....	50 ft. (15.24 m) of H ₂ O
Normal jacket water temperature out of engine.....	180° F (82° C)
Jacket water inlet, two connections, hose ID.....	4.0 in. (102 mm)
Jacket water outlet, hose ID.....	5.0 in. (127 mm)

EXHAUST SYSTEM

Maximum permissible backpressure.....	18 in. (457 mm) of H ₂ O
Exhaust outlet, pipe flange.....	8.0 in. (203 mm) ANSI

FUEL SYSTEM

Natural gas pressure at regulator.....	5 - 10 psi (34.5 - 69 kPa)
Natural gas inlet, pipe size.....	2.0 in. (50.8 mm)

AIR INDUCTION SYSTEM (DUCTING, FILTER & SILENCER)

Maximum permissible restriction.....	15.0 in. (381 mm) of H ₂ O
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LUBRICATION SYSTEM

Approximate capacity including sump, filters, and cooler.....	90 gal. (340 liters)
Normal lube oil pressure.....	55 ± 5 psi (380 ± 35 kPa)

STARTING SYSTEM

Regulated starting air.....	120 psi (827 kPa) ⁽¹⁾
Electric start.....	24 VDC

MISCELLANEOUS

Recommended minimum spacing between engines.....	36 in. (914 mm)
Recommended minimum overhead clearance.....	(Note 2)
Engine dry weight.....	20,500 lb. (9299 kg)
Heaviest engine part, top overhaul, cylinder head assembly.....	205 lb. (93 kg)
Heaviest engine part, cylinder block assembly.....	4965 lb. (2252 kg)

NOTES:

1. Pressure is based on 50° F (10° C) lubricating oil temperature.
2. Sufficient height to permit use of a chain hoist for removal of heavier components.



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