

VHP* Series Gas Engine 492 - 738 BHP (367 - 550 kWb)



Specifications

Cyllinders: Inline 6

Piston Displacement: 3520 cu. in. (58 L)

Bore & Stroke: 9.375" x 8.5" (238 x 210 mm)

Compression Ratio: 10.5:1

Jacket Water System Capacity: 48.5 gnl. (184 L)

Lube Oil Capacity: 72 gril. (273 L)

Starting System: 125 - 150 pel sirigas 24/32V electric

Dry Weight: 15,000 to (6804 kg)

Standard Equipment

AIR CLEANER - Dry type with rain shield and service indicator.

BARRING DEVICE - Manual

BEARINGS - Heavy duty, replaceable, precision type.

BREATHER - Ejector type, extractor breather system.

CONNECTING ROOS - Drop forged steel, rifle drilled.

CONTRIOL SYSTEM - Preumatic, includes pilot operated valves for air start and prelube. Engine mounted control panel with two push button valves. Pilot operated air start valves omitted when starter is not furnished by Wilsukesha. Includes engine On/Off push button. One maunited on either side of the engine.

CRANKCASE - Integral crankcase and cylinder frame. Main bearing caps drilled and tapped for temperature sensors. Does not include sensors.

CRANKSHAFT — Counterweighted, forged steel, seven main bearings, and dynamically balanced.

CYLINDERS - Removable wet type bainitic cast iron cylinder liners, chrome plated on outer diameter.

CYLINDER MEADS - Six interchangeable, two hard faced intake and two hard faced exhaust valves per cylinder. Hard faced intake and exhaust valve seat inserts. Roller valve litters and hydraulic push rods. Includes prechamber and related flue control valves.

ENGINE MONITOR DEVICES — Engine thermocouples, K-type, are wired to a common junction box for jacket water temperature, tube oil temperature and intake manifold temperature. Magnetic pickup wired for customer supplied tachometer. Lube oil pressure and intake manifold pressure sensing lines are terminated in a common bulk head.

ENGINE ROTATION - Counterclockwise when facing flywheel.

EXHAUST OUTLET - Single vertical at rear. Flexible stainless steel connection with 6" (152 mm) pipe flange.

EXHAUST THERMOCOUPLES — 10 K-type thermocouples. One for each individual cylinder and one pre-turbine for each bank all factory wired to the exhaust thermocouple junction tiox.

FLYWREEL - Approx. WFF = 155000 ib-in*; with ring gear (208 teeth), machined to accept two drive adapters: 31.88° (810 mm) plot bore. 30.25° (768 mm) bolt circle, (12) 0.75° -10 tapped holes; or 28.88° (734 mm) plot bore, 27.25° (892 mm) bolt circle, (12) 0.625° -11 tapped holes.

FLYWHEEL HOUSING - No. 00 SAE.



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FUEL SYSTEM — Natural gas, 4" (102 mm) duplex updraft corbonetor. Mounted Fisher 99, 2" (51 mm) gas regulator, 43 — 60 psi (296 – 414 Mra)-gas inlet pressure required. Prechamber fuel system and control logic.

GOVERNOR - Woodward UG-SLD hydraulic lever type, with friction type speed control. Mounted on right hand side.

IGNITION - Waskesha Custom Engine Control® Ignition Module. Electronic digital ignition system. 24V DC power required.

INTERIODOLER - Air-to-water.

LEVELING BOX TS

LIFTING EYES - Requires 9.5 ton Working Load Limit (W.L.L. anchor shackles.

LISEFRICATION - Full pressure, Geartype pump, Full flow filter, 20 gallon (76 litres) capacity, not mounted, includes flexible connections, includes later oil strainer, recurited on engine. Air/gas motor driven prelube pump. Requires final piping.

MANIFOLD - Exhaust, water cooled, vertical 5" (127 mm) pipe flange at rear and flexible stainless steri exhaust connection.

OR, COOLER - Shell and tube type, with thermostatic temperature controller. Mounted on left hand side.

OIL PAN - Base type, 72 gallon (273 litres) capacity including filter.

PAUNT - Oitheld orange primer.

PSTORS - Auminum with floating pin. 10.5:1 compression ration. Oil contest.

SHIPPING SKID - For domestic truck or rail.

TURB DCHARGER - Two, dry type, Wastegate controlled.

WERATION DAMPER - Viscous type. Guard included with remote mounted radiator or no radiator.

WATER CIRCULATING SYSTEM, AUXILIARY CIRCUIT - Belt driven water circulating high capacity pump for intercooler and lube oil cooler. See SGS43-19 performance curve for use with standard 10° diameter crankshaft guilley includes thermostatic valve.

WATER CIPICULATING SYSTEM, ENGINE JACKET - Belt striven water circulating pump, cluster type therrivotatic temperature regulating valve, full flow bypass type with 165" - 170"F (74" - 77"C) start to open thermostats. Flange connections and mating flanges for 4" (102 mm) inlet and outlet.

Waukesha F3521gl Engine Manual

Edwin P. Anderson, Ted Pipe

Waukesha F3521gl Engine Manual:

Waukesha VHP Series Gas and Diesel Engines Dresser Industries, inc. Waukesha Engine Division,1974

Waukesha Operation & Maintenance Manual ,1986 General Instructions for the Care and Operation of

Waukesha Engines Waukesha Motor Company,1951* Waukesha Model FC Gas, Gasoline Engine ,1958

Waukesha VR Series Gas and Diesel Engines Dresser Industries, inc. Waukesha Engine Division,197? General Instructions for the Care and Operation of Waukesha-Hesselman Oil Engines, with Vacuum Fuel-air Control Waukesha Motor Company,1939 General Instructions for the Care and Operation of Waukesha-Hesselman Oil Engines with Vacuum Fuel-air Control Waukesha Motor Company (Waukesha, Wis.),1942 Waukesha Scania Service Manual Dresser Industries, inc. Waukesha Engine Division,1977 Gas Engine Manual ,1968 Gas Engine Manual Edwin P. Anderson,Ted Pipe,1981

The book delves into Waukesha F3521gl Engine Manual. Waukesha F3521gl Engine Manual is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and indepth insights into Waukesha F3521gl Engine Manual, encompassing both the fundamentals and more intricate discussions.

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 - o Chapter 2: Essential Elements of Waukesha F3521gl Engine Manual
 - o Chapter 3: Waukesha F3521gl Engine Manual in Everyday Life
 - Chapter 4: Waukesha F3521gl Engine Manual in Specific Contexts
 - ∘ Chapter 5: Conclusion
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- 6. In chapter 5, this book will draw a conclusion about Waukesha F3521gl Engine Manual. The final chapter will summarize the key points that have been discussed throughout the book.
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Waukesha F3521gl Engine Manual Introduction

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