



Waukesha

L7042GSI

STANDARD EQUIPMENT

AIR CLEANER - Two, 2" dry type filter with hinged rain shield and service indicator.

AIR FUEL RATIO CONTROL (AFR) - Integrated ESM® - AFR catalyst rich-burn control, main fuel gas regulator actuators, exhaust O₂ sensor(s), and post turbocharger exhaust thermocouple. Factory mounted and tested. AFR maintains emissions through load and speed changes. The EDM AFR meets Canadian Standards Association Class 1, Division 2, Group D hazardous location requirements. Note: For dual fuel applications, EDM AFR system will control the primary fuel source only.

BARRING DEVICE - Manual.

BATTERY BOX - Ship loose battery box designed to accommodate two Series 31 12 VDC batteries. Includes power disconnect switch and 20 foot (6.1 m) cable for connection to ESM® Power Distribution Box.

BEARINGS - Heavy duty, replaceable, precision type.

BREATHER - Self regulating, closed system.

CONNECTING RODS - Drop forged steel, oil drilled.

CONTROL SYSTEM - Waukesha Engine System Manager (ESM®) integrates spark timing control, speed governing, detonation detection, start-stop control, diagnostic tools, fault logging and engine safeties. Engine Control Unit (ECU) is central brain of the control system and main customer interface. Interface with ESM is through 25 foot (7.6 m) harness to local panel, through MODBUS RTU slave connection RS-485 multidrop hardware, and through the Electronic Service Program (ESP). Customer connections are only required to the local panel, fuel valve, and 24V DC power supply. Compatible with Woodward load sharing module. ESM meets Canadian Standards Association Class 1, Division 2, Group D, hazardous location requirements.

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 bearing cast iron cylinder liners, chrome plated on outer diameter.

CYLINDER HEADS - Twelve interchangeable. Two hand faced intake and two hand faced exhaust valves per cylinder. Hand faced intake and exhaust valve seat inserts. Roller valve lifters and hydraulic push rods.

ELECTRONIC SERVICE PROGRAM (ESP) - Microsoft® Windows-based program provided on CD-ROM for programming and interface to ESM. Includes E-Help for troubleshooting any ESM faults. Serial harness is provided for connection of a customer supplied laptop to the ECU RS-232 port.

ENGINE MONITORING DEVICES - Factory mounted and wired sensors for lube oil pressure and temperature, intake manifold temperature and pressure, overspeed, and jacket water temperature, all accessible through ESM®. ESM continuously monitors combustion performance through accelerometers to provide detonation protection. Dual magnetic pick-ups are used for accurate engine speed monitoring. ESM provides predictive spark plug diagnostics as well as advanced diagnostics of engine and all ESM sensors and logs any faults into non-volatile flash memory.

ENGINE ROTATION - Counterclockwise when facing flywheel.

EXHAUST OUTLET - Single vertical or rear. Flexible stainless steel connection with 8" (203 mm) pipe flange.

FLYWHEEL - Approx. 1400 - 150000 lb-in; with ring gear (58 teeth), machined to accept two drive adapters; 31.88" (810 mm) pilot bore, 36.25" (921 mm) bolt circle, (12) 6.75" - 10 tapped holes, or 28.88" (734 mm) pilot bore, 37.25" (946 mm) bolt circle, (12) 6.825" - 11 tapped holes and (12) 6.75" - 10 tapped holes.

FLYWHEEL MOUNTING - No. 00 SAE.

FUEL SYSTEM - Single 3" ANSI Range fuel inlet connection. Two natural gas, 4" (102 mm) updraft carburetors and two mounted Mooney Flowgrid 250, 2" (51 mm) gas regulators, 30 - 80 psi (DSF - 414 kPa) fuel inlet pressure required. 10 foot (3 m) harness provided for ESM control of customer supplied fuel shutoff valve.

GOVERNOR - Electric throttle actuator controlled by ESM with throttle position feedback. Governor tuning is performed using ESP. ESM includes option of a load-coming feature to improve engine response to step loads.

IGNITION - Ignition Power Module (IPM) controlled by ESM, with spark timing. Dual voltage energy levels automatically controlled by ESM to maximize spark plug life.

INTERCOOLER - Air-to-water.

LEVELING BOLTS

LIFTING EYES - Requires 5.5 ton Working Load Limit (WLL) anchor shackles.

LUBRICATION - Full pressure, gear type pump. Engine mounted full flow lube oil micro-fiberless filters. MICROSPIN® bypass filter, engine mounted. Air/gas motor driven pre-lube pump, requires final piping.

MANIFOLDS - Exhaust, (2) water cooled.

OIL COOLER - Shell and tube type, with thermostatic temperature controller and pressure regulating valve. Factory mounted.

OIL PAN - Deep sump type, 190 gallon (719 L) capacity including filter and cooler.

PAINT - Oilfield orange primer.

PISTONS - Aluminum with floating pin. Oil cooled.

SHIPPING SKID - For domestic truck or rail.

TURBOCHARGERS - Two dry type. Wastegate controlled.

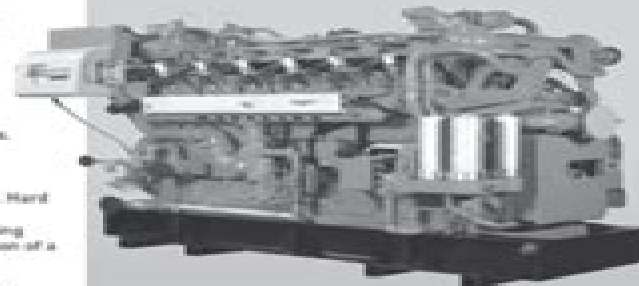
VIBRATION DAMPER - Whorlous type. Guard included with remote mounted radiator or no radiator.

WATER CIRCULATING SYSTEM, AUXILIARY CIRCUIT - Belt driven water circulating high capacity pump for intercooler and lube oil cooler. See 28543-38 performance curve for use with standard 10 diameter crankshaft pulley.

WATER CIRCULATING SYSTEM, ENGINE JACKET - Belt driven water circulating pump, cluster type thermostatic temperature regulating valves, full flow bypass type. Flange connections and mating flanges for (2) 4" (102 mm) inlets and (1) 5" (127 mm) outlet.

VHP® Series Gas Engine Extender Series®

987 - 1547 BHP
(736 - 1154 kWb)



Engine shown with options.

Model L7042GSI with ESM

Turbocharged and Intercooled, Twelve
Cylinder, Four-Cycle Gas Fueled Engine

SPECIFICATIONS

Cylinders V 12	Lube Oil Capacity 190 gal. (719 L)
Piston	Starting System
Displacement 7040 cu. in. (115 L)	125 - 150 psi air/gas 24 V electric
Bore & Stroke 9.375" x 8.5" (238 x 216 mm)	Dry Weight 21,000 lb. (9525 kg)
Compression Ratio 8:1	
Jacket Water	
System Capacity 107 gal. (405 L)	



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'Jeep' Industrial Engine Manual and Parts List Kaiser Jeep Corporation. Industrial Engine Division, 1965 *427 Single Overhead Cam Engine Service Manual* Ford MotorCo, 2014-12-04 This is a reprint of the original service manual for the 427 Single Overhead Cam engine produced by FordMotorCo **Oil Engine Manual** Oil Engine and Gas Turbine, 1964 *Four Cycle Engine Manual* ,1977 Willys Industrial Engine Manual and Parts List Willys Motors, Inc, 1959*

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