

6068H

POWERTECH 6.8 L

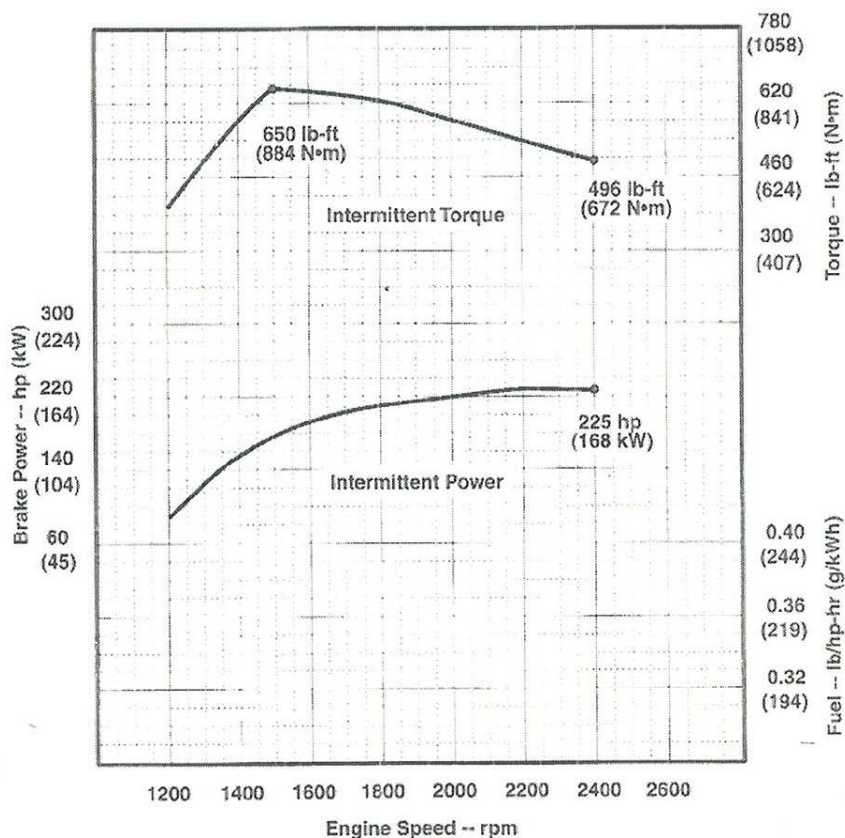
NATURAL GAS ENGINE

BUS ENGINE

PERFORMANCE DATA:

Rated Power 225 hp (168 kW) @ 2400 rpm
Peak Torque 650 lb-ft (884 Nm) @ 1500 rpm
Low Idle Speed 650 rpm

PERFORMANCE CURVE



RATED BHP is the power rating for variable speed and load applications where full power is required intermittently.

PHOTOGRAPHS MAY SHOW NONSTANDARD EQUIPMENT.

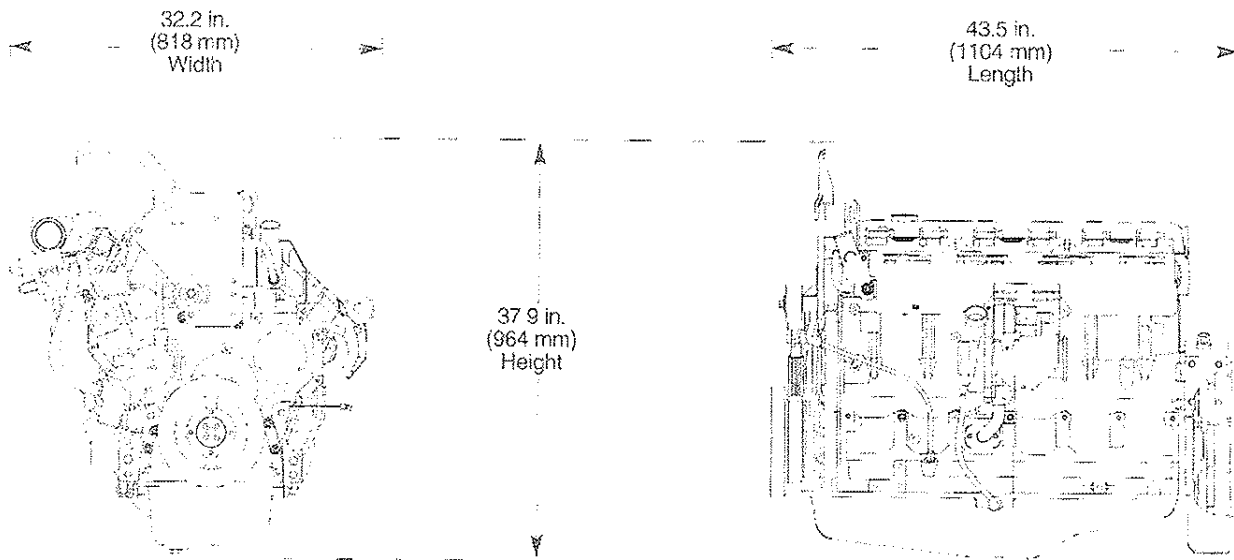


GENERAL DATA:

Model.....6068H
Displacement—L (cu. in.)6.8 (414)
Bore and Stroke—in. (mm)4.19 x 5.0 (106.5 x 127)
Aspiration.....Turbocharged
Aftercooler.....Air-to-Air
Engine Type.....6 Cylinders, In-line, 4-Cycle

Combustion System.....Spark Ignited
Compression Ratio.....11:1
Length—in. (mm).....43.5 (1104)
Width—in. (mm)32.2 (818)
Height—in. (mm).....37.9 (964)
Weight (dry)—lb. (kg)1,290 (586)

DIMENSIONS:



FEATURES AND BENEFITS:

Performance

- The John Deere **PowerTech** 6.8 L natural gas engine delivers 225 horsepower
- Superior torque rise offers quick response and excellent acceleration.
- Low emissions.

Wet-Type Cylinder Liners

- Allow for excellent heat dissipation.
- Individual liners make these engines rebuildable, extending the life of the engine.

Robust Construction

- Contributes to long engine life while providing durability and reliability.

Fuel System

- Electronically Controlled Gaseous Emission Management System provides:
 - Constant performance
 - Excellent emissions control
 - Diesel-like fuel economy
 - Extended maintenance intervals
- Lean burn, Closed Loop Adaptive Learn Technology.
- Electronically controlled wastegate turbocharger
- CARB/EPA emission certified for use in 50 states.
- California optional low NO_x.
(2.5g/BHP-HR NO_x)

Specifications and design subject to change without notice.



www.deere.com/jdpower

DEERE POWER SYSTEMS

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Specifications

GENERAL

Number of Cylinders	6
Bore	106.5 mm (4.19 in.)
Stroke	127 mm (5.00 in.)
Engine Displacement	6.6 Liter (414 cu in.)
Compression Ratio	11:1
Intake Valve Clearance (cold)	0.36 mm (0.014 in.)
Exhaust Valve Clearance (cold)	0.46 mm (0.018 in.)
Spark Plug Gap (John Deere P/N RE66144, marked JDZOFFR)	Spark Plugs Cannot Be Gapped
Power @ 2400 rpm	166 kW (225 hp)
Rated Speed	2400 rpm
Torque @ 1500 rpm	868 N•m (640 ft-lb)
Slow Idle Speed	650 rpm
Engine Weight (wet)	585 kg (1290 lb)

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LUBRICATION SYSTEM

Crankcase Capacity with filter change	18.0 L (19.0 qt)
Rated Oil Pressure	310 kPa (45 psi)
Idle Oil Pressure	170 kPa (25 psi)
Maximum Pressure Spikes	827 kPa (120 psi)
Shutdown Oil Pressure	103 kPa (15 psi)

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COOLING SYSTEM

Maximum Top Tank Temperature	105°C (221°F)
Shutdown Temperature	112°C (234°F)
Thermostat Opening Temperature	89°C (192°F)
Thermostat Fully Open Temperature	100°C (212°F)
Minimum System Pressure	69 kPa (10 psi)

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