



6090HF475

9.0L Industrial Diesel Engine

- PowerTech™
- 172 - 286 kW (231 - 386 hp)

Contact a Distributor

Diesel Engine Technology >

Industrial PowerSource Magazine >

Features

Collapse All

- Fixed geometry turbocharger

- Fixed geometry turbochargers are sized for a specific power range and optimized to provide excellent performance across the entire torque curve. They are also designed to maximize fuel economy between the engine's rated speed and peak torque.

— High pressure common rail (HPCR) fuel system

- The HPCR fuel system provides variable common-rail pressure, multiple injections, and higher injection pressures up to 1,600 bar (23,000 psi). It also controls fuel injection timing and provides precise control for the start, duration, and the end of injection.

— 4-valve cylinder head

- The 4-valve cylinder head provides excellent airflow by utilizing a U-flow design.

— Air-to-air aftercooled

- This is the most efficient method of cooling intake air to help reduce engine emissions while maintaining low-speed torque, transient response time, and peak torque. It enables an engine to meet emissions regulations with better fuel economy and the lowest installed costs.

— John Deere electronic engine controls

- Electronic engine controls monitor critical engine functions, providing warning and/or shutdown to prevent costly engine repairs and eliminate the need for add-on governing components, all lowering total installed costs.
-

Specifications

Emissions Certifications

EU Stage II

General engine data

Model	6090HF475
Number of cylinders	6
Displacement-- L (cu in)	9.0 (549)
Bore and Stroke-- mm (in)	118 x 136 (4.66 x 5.35)
Compression Ratio	16.0 : 1
Engine Type	In-line, 4-Cycle
Aspiration	Turbocharged and air-to-air aftercooled
Length - mm (in)	1211 (47.7)
Width-- mm (in)	633 (24.9)
Height-- mm (in)	1260 (49.6)
Weight, dry - kg (lb)	1097 (2418)

Performance data range

Intermittent - Rated power	261-286 kW (350-384 hp) @2200 rpm
Intermittent - Peak power	298 kW (400 hp) @2000 rpm
Intermittent - Power bulge	1-14 % @2000 rpm
Intermittent - Peak torque	1474 N·m (1087 ft-lb) @1600 rpm
Intermittent - Torque rise	19-30%
Heavy Duty - Rated power	239 kW (321 hp) @2200 rpm
Heavy Duty - Peak power	272 kW (365 hp) @2000 rpm
Heavy Duty - Power bulge	14 % @2000 rpm
Heavy Duty - Peak torque	1349 N·m (995 ft-lb) @1600 rpm

Heavy Duty - Torque rise

30%

Continuous - Rated

172-219 kW (231-296 hp) @2200 rpm

Continuous - Peak power

206-248 kW (276-333 hp) @1800-2000 rpm

Continuous - Power bulge

13-20 % @1800-2000 rpm

Continuous - Peak torque

1200-1228 N·m (885-906 ft-lb) @1600 rpm

Continuous - Torque rise

29-61%

Show Less

Drivetrain Components

Pump Drives

Transmissions

Axles

Planetary Gear Drives

Vehicle Electrification

Accessories

Engine Accessories Brochure

Parts

Engine Parts

Resources