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Section 1010

GENERAL ENGINE SPECIFICATIONS
ENGINE SPECIFICATIONS

General

Type... 6 Cylinder, 4 Stroke Cycle, Valve-In-Head
Firing Order................................. 1, 5, 3, 6, 2, 4
Bore........................................... 102 mm
Stroke........................................ 120 mm
Piston Displacement................... 5.88 Litres
Compression Governed Speed.... (6-590) 17.0 to 1 (6T-590) 17.5 to 1 (6TA-590) 16.5 to 1
No Load Governed Speed.............. See machine service manual
Rated Engine Speed...................... See machine service manual
Engine Idle Speed......................... See machine service manual
Valve Tappet Clearance (Exhaust)(Cold)...................... 0.508 mm
(Intake)(Cold)............................. 0.254 mm
Thermostat Operating Range........... 181°F to 203°F (83°C to 95°C)

Piston and Connecting Rods

Rings Per Piston.................................... 3
Number of Compression Rings.............. 2
Number of Oil Rings (two piece).......................... 1
Type of Pins...................................... Full Float
Type Bearings................................. Steel Back Leaded Bronze

Main Bearings

Number of Bearings.................................. 7
Type of Bearings................................. Replaceable

Engine Lubricating System

Oil Pressure.................................... 42 to 54 PSI (290 to 372 kPa)(2.90 to 3.72 bar)
with Engine Warm at Rated Engine Speed
Type of System.................................. Pressure and Spray Lubrication
Oil Pump......................................... Rotor Type
Oil Filter........................................ Full Flow Turn-on Type
Oil Capacity (w/o filter)..................... 16 Quarts (15 litres)
Oil Capacity (w/ hour filter).................. 15 Quarts (14.3 litres)

Fuel System

Fuel Injection Pump (6-590)............. CAV
Fuel Injection Pump (6T-590 and 6TA-590)........... Bosch
Pump Timing.................................. Top Center
Fuel Injectors............................... Bosch 17 mm See machine service manual for opening pressure
Governor........................................ Variable Speed, a Part of the Injection Pump
First Stage Fuel Filter....................... Turn on Type
Second Stage Fuel Filter.................... Turn on Type
Lift Pump...................................... 5 to 7 PSI (34 to 48 kPa)(0.34 to 0.48 Bar)

NOTE: The J I Case Company reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.
Section 1024

SPECIFICATION DETAILS

IMPORTANT: This engine was made using the metric measurement system. All measurements and checks must be made with metric tools to make sure of an accurate reading when inspecting parts.
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