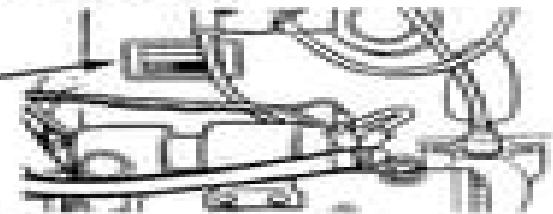


# Section 11

## GENERAL ENGINE SPECIFICATIONS W8E, W9E and W10E Loaders

THE MODEL AND ENGINE SERIAL NUMBER IS STAMPED ON A PLATE LOCATED ON THE SIDE OF THE ENGINE ABOVE THE CRANK-MOTOR.



### DIESEL ENGINES

#### General

Type \_\_\_\_\_ 6 Cylinder, 4 Stroke Cycle, Valve-in-Head.  
Firing Order \_\_\_\_\_ 1-5-3-6-2-4  
Bore \_\_\_\_\_ 4-1/8 Inches  
Stroke \_\_\_\_\_ 5 Inches  
Piston Displacement \_\_\_\_\_ 461 Cubic Inches  
Compression Ratio \_\_\_\_\_ 16.5 to 1  
No Load Governed Speed \_\_\_\_\_ 2200 RPM  
Rated Engine Speed \_\_\_\_\_ 2000 RPM  
Engine Lifting Speed \_\_\_\_\_ 175 to 175 RPM  
\*Valve Tappet Clearance (Exhaust) \_\_\_\_\_ (Hot) .020 Inch (Cold) .025 Inch  
(Intake) \_\_\_\_\_ (Hot and Cold) .015 Inch

\*Hot Settings Are Made After the Engine Has Operated At Thermostat Controlled Temperature For At Least Fifteen Minutes.

#### Piston and Connecting Rods

Rings per Piston \_\_\_\_\_ 2  
Number of Compression Rings \_\_\_\_\_ 2  
Number of Oil Rings \_\_\_\_\_ 2  
Type Pins \_\_\_\_\_ Full Floating Type  
Type Bearing \_\_\_\_\_ Replaceable Precision, Steel Back, Copper-Lead Alloy Liners

#### Main Bearings

Number of Bearings \_\_\_\_\_ 7  
Type \_\_\_\_\_ Replaceable Precision Steel Back, Copper-Lead Alloy Liners

#### Engine Lubricating System

Oil Pressure \_\_\_\_\_ 45 to 50 Pounds with Engine Warm and Operating at Rated Engine Speed  
Type System \_\_\_\_\_ Pressure and Spray Circulation  
Oil Pump \_\_\_\_\_ Gear Type  
Oil Filter \_\_\_\_\_ Full Flow Spin on Type

#### Fuel System

Fuel Injection Pump \_\_\_\_\_ Robert Bosch, Type PDS Multiple Plunger  
Pump Timing \_\_\_\_\_ 30 Degrees Before Top Dead Center (Port Closing)  
Fuel Injectors \_\_\_\_\_ Pencil Type (Opening Pressure 2800 PSI)  
Fuel Transfer Pump \_\_\_\_\_ Plunger Type, Integral Part of Injection Pump  
Governor \_\_\_\_\_ Variable Speed, Fly-Weight Centrifugal Type, Integral Part of Injection Pump  
1st Stage Fuel Filter \_\_\_\_\_ Full Flow Spin on Type  
2nd Stage Fuel Filter \_\_\_\_\_ Full Flow Spin on Type

# Mazda W9 Engine Manual

**United States. War Department**

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