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#### SERIES/SECTION

SECTION NO. FORM NO.

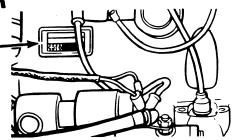
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# Section

# GENERAL ENGINE SPECIFICATIONS 880 EXCAVATOR

**DIESEL ENGINES** 

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



## General

Type 4 Cylinder, 4 S	Stroke Cycle, Valve-in-Head Turbo-Charged
Firing Order	
Bore	
Stroke	
Piston Displacement	
Compression Ratio	16.5 to 1
No Load Governed Speed	
Rated Engine Speed	
Engine Idling Speed	
Exhaust Valve Rotators	
*Valve Tappet Clearance (Exhaust)	(Hot) .020 Inch (Cold) .025 Inch
(Intake)	(Hot and Cold) .015 Inch
*Hot Settings Are Made After the Engine Has Operate	ed At Thermostat Controlled Temperature
For At Least Fifteen Minutes.	

## **Piston and Connecting Rods**

Rings per Piston	
Type Pins	Full Floating Type
Type Bearing Replaceat	le Precision, Steel Back, Copper-Lead Alloy Liners

## **Main Bearings**

Number of Bearings					5	j.
Type Bearings	. Replaceable	Precision	Steel Back,	Copper-Lead	Alloy Liners	;

# **Engine Lubricating System**

Crankcase Capacity	10 Quarts
with Filter Change	
Oil Pressure 45 to 55 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 PES Multiple Plunger
Pump Timing	30 Degrees Before Top Dead Center (Port Closing)
	Pencil Type (Opening Pressure 2800 PSI)
	Plunger Type, Integral Part of Injection Pump
	tht Centrifugal Type, Integral Part of Injection Pump
	Full Flow Spin on Type
2nd Stage Fuel Filter	Full Flow Spin on Type

Rac. Form 9-74205

# Section 1050

# **GENERAL MAINTENANCE**

CASE CORPORATION

CE Div. 9-68141 - Nov. 1978

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## MAINTENANCE

### Introduction

Scheduled maintenance and lubrication are the normal operations required to provide safe and efficient operation. Following the maintenance charts is the easiest and most economical means of assuring the least amount of down time.

Hourly intervals have been established for servicing the machine. They are based on the number of hours the engine has run. The hourmeter, which operates when the engine is running, indicates the accumulated hours of operation.

### **Run-In Period**

The items listed in the run-in section are performed during the run-in period only.

#### **Scheduled Maintenance**

The items listed in this section are separated into maximum hourly intervals. These intervals are based on "average" operating conditions. When operating under "severe" conditions, such as excessive heat, cold, dust, mud or water, shorten the interval.

The chart following lists all components to be serviced, the interval of servicing and the section it is found in.

### **RUN-IN MAINTENANCE CHART**

**NOTE:** The following charts are based on maximum intervals. If the machine operates in severe conditions, service more often.

**NOTE:** See page 1050-5 for listing of fluids and lubricants.

INTERVAL	SERVICE	INSTRUCTIONS
Run-In Period After First 20 Hours	Drain and refill engine crankcase oil	See Operator's Manual
1 1101 20 110013	Change engine oil filter.	See Operator's Manual
	Check fan belt tension	Section 4007
	Replace 33 micron hydraulic oil filter element	Section 8201
	Clean 100 mesh screens	Section 8201

## SCHEDULED MAINTENANCE CHART

INTERVAL	SERVICE	INSTRUCTIONS
Every 10 Hours or daily, whichever occurs	Check engine oil level	See Operator's Manual
first	Check hydraulic oil level	Section 8201
	Check air cleaner air restriction indicator	Section 2051
	Check radiator coolant level	See Operator's Manual
	Clean air cleaner dust cups	See Operator's Manual

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