



SEBU8120-02

# Operation and Maintenance Manual

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**C6.6 Industrial Engine**

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S/N – 6661-Up



# C6.6 Industrial Engine

SEBU8120-02

## Foreword

Foreword	1
Literature Information	
Safety	
Operation	
Maintenance	
Maintenance Intervals	
Overhaul	
California Proposition 65 Warning	
Foreword	3
Literature Information	
Safety	
Operation	
Maintenance	
Maintenance Intervals	
Overhaul	
California Proposition 65 Warning	

SEBU8120-02

## Safety

Safety Messages	5
(1) Universal Warning	
(2) Ether	
(3) Hand (High Pressure)	
General Hazard Information	8
Pressurized Air and Water	
Fluid Penetration	
Containing Fluid Spillage	
Asbestos Information	
Dispose of Waste Properly	
Burn Prevention	12
Coolant	
Oils	
Batteries	
Fire Prevention and Explosion Prevention	13
Fire Extinguisher	
Ether	
Lines, Tubes and Hoses	
Crushing Prevention and Cutting Prevention	16
Mounting and Dismounting	17
High Pressure Fuel Lines	18
Before Starting Engine	20
Engine Starting	21
Engine Stopping	22
Electrical System	23
Grounding Practices	
Engine Electronics	25

SEBU8120-02

## Product Information

Welding on Engines with Electronic Controls	26
Model View Illustrations	28

Engine Description	29
Engine Specifications	
Electronic Engine Features	
Engine Diagnostics	
Engine Cooling and Lubrication	
Plate Locations and Film Locations	31
Serial Number Plate (1)	
Reference Numbers	32
Record for Reference	
Emissions Certification Film	33
Customer Specified Parameters	34

## SEBU8120-02

### Operation

Product Lifting	35
Product Storage	36
Gauges and Indicators	37
Monitoring System	39
Monitoring System	40
Programmable Options and Systems Operation	
"Warning"	
"Warning/Derate"	
"Warning/Derate/Shutdown"	
Sensors and Electrical Components	42
Sensor Locations	
Failure of Sensors	
All Sensors	
Programmable Monitoring System (PMS)	
Coolant Temperature Sensor 1	
Failure of the Coolant Temperature Sensor	
Intake Manifold Air Temperature Sensor 2	
Intake Manifold Pressure Sensor 3	
Fuel Pressure Sensor 4	
Electronic Control Module 5	
Engine Oil Pressure Sensor 6	
Low Oil Pressure Warning	
Very Low Oil Pressure Warning	
Failure of the Engine Oil Pressure Sensor	
Primary Speed/Timing Sensor 7	
Failure of the Primary Speed/Timing Sensor	
Secondary Speed/Timing Sensor 8	
Engine Shutoffs and Engine Alarms	46
Shutoffs	
Alarms	
Testing	
Overspeed	48
Self-Diagnostics	49
Diagnostic Lamp	50
Diagnostic Flash Code Retrieval	51
"Diagnostic" Lamp	
Fault Logging	54
Engine Operation with Active Diagnostic Codes	55
Engine Operation with Intermittent Diagnostic Codes	56
Before Starting Engine	57
Starting the Engine	58

Starting the Engine	
Cold Weather Starting	59
Starting with Jump Start Cables	60
After Starting Engine	61
Engine Operation	62
Engaging the Driven Equipment	63
Fuel Conservation Practices	64
Stopping the Engine	65
Emergency Stopping	66
Emergency Stop Button (If Equipped)	
After Stopping Engine	67
Cold Weather Operation	68
Hints for Cold Weather Operation	
Viscosity of the Engine Lubrication Oil	
Recommendations for the Coolant	
Engine Block Heaters	
Idling the Engine	
Recommendations for Coolant Warm Up	
The Water Temperature Regulator and Insulated Heater Lines	
Insulating the Air Inlet and Engine Compartment	
Radiator Restrictions	71
Fuel and the Effect from Cold Weather	72
Fuel Related Components in Cold Weather	73
Fuel Tanks	
Fuel Filters	
Fuel Heaters	

## SEBU8120-02

### Maintenance

Refill Capacities and Recommendations	74
Engine Oil	
Cat DEO (Diesel Engine Oil)	
Commercial Oils	
Lubricant Viscosity Recommendations	
S&O&S Oil Analysis	
Lubrication System	
Lubricating Grease	
Fuel	
Refill Capacities (Fuel System)	
Coolant	
S&O&S Coolant Analysis	
Refill Capacity	
Maintenance Interval Schedule	81
Aftercooler Core - Clean/Test	84
Aftercooler Core - Inspect	85
Alternator - Inspect	86
Alternator and Fan Belts - Inspect	87
Alternator and Fan Belts - Replace	88
Battery - Replace	89
Battery Electrolyte Level - Check	90
Battery or Battery Cable - Disconnect	91
Belt Tensioner - Inspect	92
Cooling System Coolant (DEAC) - Change	93
Drain	
Flush	

Cooling Systems with Heavy Deposits or Plugging	
Fill	
Cooling System Coolant (ELC) - Change	96
Drain	
Flush	
Fill	
Cooling System Coolant Extender (ELC) - Add	98
Cooling System Coolant Level - Check	99
Cooling System Coolant Sample (Level 1) - Obtain	100
Cooling System Coolant Sample (Level 2) - Obtain	102
Cooling System Supplemental Coolant Additive (SCA) - Test/Add	103
Test for SCA Concentration	
Coolant and SCA	
Water and SCA	
S&middledot;O&middledot;S Coolant Analysis	
Level 1	
Level 2	
Add the SCA, If Necessary	
Cooling System Water Temperature Regulator - Replace	105
Crankcase Breather (Canister) - Replace	106
Driven Equipment - Check	107
Engine - Clean	108
Engine Air Cleaner Element (Dual Element) - Clean/Replace	109
Servicing the Air Cleaner Elements	
Dual Element Air Cleaners	
Cleaning the Primary Air Cleaner Elements	
Pressurized Air	
Vacuum Cleaning	
Inspecting the Primary Air Cleaner Elements	
Storing Primary Air Cleaner Elements	
Engine Air Cleaner Element (Single Element) - Inspect/Replace	113
Engine Air Cleaner Element (Single Element) - Replace	114
Engine Air Cleaner Service Indicator - Inspect	115
Test the Service Indicator	
Engine Air Precleaner - Check/Clean	116
Engine Mounts - Inspect	117
Engine Oil Level - Check	118
Engine Oil Sample - Obtain	119
Obtain the Sample and the Analysis	
Engine Oil and Filter - Change	120
Drain the Engine Lubricating Oil	
Replace the Oil Filter	
Fill the Oil Pan	
Engine Oil and Filter - Change	125
Engine Valve Lash - Inspect/Adjust	126
Fan Clearance - Check	127
Fuel System - Prime	128
Hand Fuel Priming Pump	
Electric Fuel Priming Pump	
Fuel System Primary Filter/Water Separator - Drain	131
Fuel System Primary Filter (Water Separator) Element - Replace	133
Type One Filter	
Type Two Filter	
Fuel System Secondary Filter - Replace	138

Type One Filter	
Type Two Filter	
Fuel Tank Water and Sediment - Drain	142
Fuel Tank	
Drain the Water and the Sediment	
Fuel Storage Tanks	
Hoses and Clamps - Inspect/Replace	144
Replace the Hoses and the Clamps	
Overhaul Considerations	146
Oil Consumption as an Overhaul Indicator	
Overhaul Options	
Overhaul Recommendation	
Rebuild or Exchange	
Inspection and/or Replacement	
Obtain Coolant Analysis	
Radiator - Clean	150
Severe Service Application - Check	151
Environmental Factors	
Improper Operating Procedures	
Improper Maintenance Procedures	
Starting Motor - Inspect	153
Turbocharger - Inspect	154
Removal and Installation	
Inspecting	
Walk-Around Inspection	156
Inspect the Engine for Leaks and for Loose Connections	
High Pressure Fuel Lines	
Water Pump - Inspect	158
	<b>SEBU8120-02</b>
	<b>Reference</b>
Engine Rating Conditions	159
Engine Rating Definitions	160
Customer Assistance	161
USA and Canada	
Outside of the USA and of Canada	
Ordering Replacement Parts	163
Reference Material	164
Lubricants	
Fuels	
Coolants	
Miscellaneous	
Emissions Warranty	
Additional Reference Material	166
Maintenance Records	167
Maintenance Log	168

## Foreword

### Literature Information

This manual contains safety, operation instructions, lubrication and maintenance information. This manual should be stored in or near the engine area in a literature holder or literature storage area. Read, study and keep it with the literature and engine information.

English is the primary language for all Caterpillar publications. The English used facilitates translation and consistency in electronic media delivery.

Some photographs or illustrations in this manual show details or attachments that may be different from your engine. Guards and covers may have been removed for illustrative purposes. Continuing improvement and advancement of product design may have caused changes to your engine which are not included in this manual. Whenever a question arises regarding your engine, or this manual, please consult with your Caterpillar dealer for the latest available information.

### Safety

This safety section lists basic safety precautions. In addition, this section identifies hazardous, warning situations. Read and understand the basic precautions listed in the safety section before operating or performing lubrication, maintenance and repair on this product.

### Operation

Operating techniques outlined in this manual are basic. They assist with developing the skills and techniques required to operate the engine more efficiently and economically. Skill and techniques develop as the operator gains knowledge of the engine and its capabilities.

The operation section is a reference for operators. Photographs and illustrations guide the operator through procedures of inspecting, starting, operating and stopping the engine. This section also includes a discussion of electronic diagnostic information.

### Maintenance

The maintenance section is a guide to engine care. The illustrated, step-by-step instructions are grouped by fuel consumption, service hours and/or calendar time maintenance intervals. Items in the maintenance schedule are referenced to detailed instructions that follow.

Use fuel consumption or service hours to determine intervals. Calendar intervals shown (daily, annually, etc.) may be used instead of service meter intervals if they provide more convenient schedules and approximate the indicated service meter reading.

Recommended service should be performed at the appropriate intervals as indicated in the Maintenance Interval Schedule. The actual operating environment of the engine also governs the Maintenance Interval Schedule. Therefore, under extremely severe, dusty, wet or freezing cold operating conditions, more frequent lubrication and maintenance than is specified in the Maintenance Interval Schedule may be necessary.

The maintenance schedule items are organized for a preventive maintenance management program. If the preventive maintenance program is followed, a periodic tune-up is not required. The implementation of a preventive maintenance management program should minimize operating costs through cost



avoidances resulting from reductions in unscheduled downtime and failures.

## Maintenance Intervals

Perform maintenance on items at multiples of the original requirement. Each level and/or individual items in each level should be shifted ahead or back depending upon your specific maintenance practices, operation and application. We recommend that the maintenance schedules be reproduced and displayed near the engine as a convenient reminder. We also recommend that a maintenance record be maintained as part of the engine's permanent record.

See the section in the Operation and Maintenance Manual, "Maintenance Records" for information regarding documents that are generally accepted as proof of maintenance or repair. Your authorized Caterpillar dealer can assist you in adjusting your maintenance schedule to meet the needs of your operating environment.

## Overhaul

Major engine overhaul details are not covered in the Operation and Maintenance Manual except for the interval and the maintenance items in that interval. Major repairs are best left to trained personnel or an authorized Caterpillar dealer. Your Caterpillar dealer offers a variety of options regarding overhaul programs. If you experience a major engine failure, there are also numerous after failure overhaul options available from your Caterpillar dealer. Consult with your dealer for information regarding these options.

## California Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery posts, terminals and related accessories contain lead and lead compounds. **Wash hands after handling.**

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