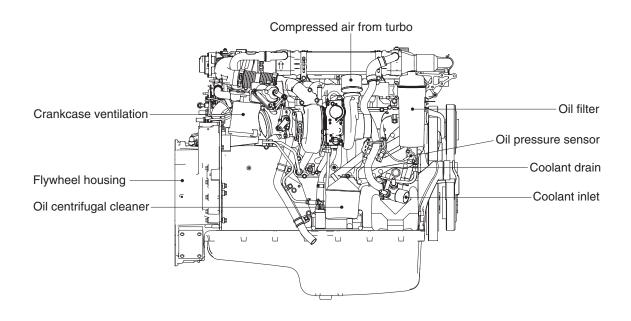
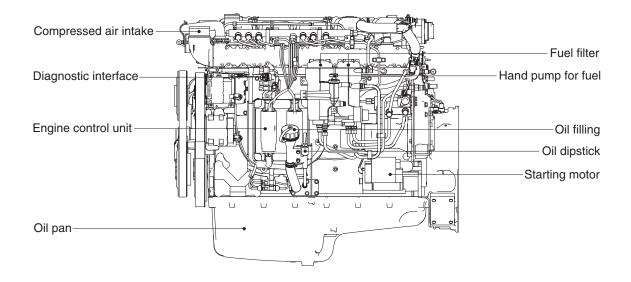
SECTION 2 ENGINE

Group	1	Structure and Function	2-	1
Group	2	Engine speed and Stall rpm	2-3	3

1. STRUCTURE



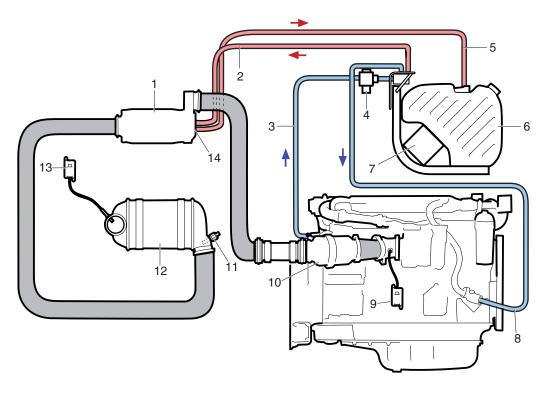


770F2EG01

· Direct 4-stroke, 6-cylinders, water-cooling and charge air cooled diesel engine in installed, cylinder block and cylinder head are made of case iron and turbocharger is attached.

2. SCR SYSTEM

The following drawing provides an overview of SCR system components.



770F2EG06

- 1 Evaporator
- 2 Pressure line for reductant
- 3 Coolant hose for tank and pump heating
- 4 Coolant valve
- 5 Reductant return line
- 6 Reductant tank
- 7 Reductant pump and control unit

- 8 Coolant hose, return from tank and pump heating
- 9 NOx sensor with control unit
- 10 Oxidation catalytic converter
- 11 Exhaust gas temperature sensor
- 12 SCR catalytic converter
- 13 NOx sensor with control unit
- 14 Reductant doser

GROUP 2 ENGINE SPEED & STALL RPM

1. TEST CONDITION

1) Normal temperature of the whole system

- Coolant : Approx 80°C (176°F) - Hydraulic oil : $45 \pm 5^{\circ}\text{C}$ (113 \pm 10°F) - Transmission oil : $75 \pm 5^{\circ}\text{C}$ (167 \pm 10°F)

2) Normal operating pressure : See page 6-56.

2. SPECIFICATION

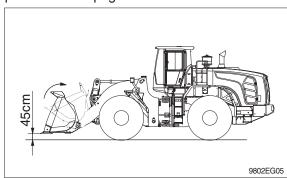
	Domork					
Low idle	High idle	Pump stall	Converter stall	Full stall	Fan motor	Remark
750±25	2100±50	2100±70	2050±70	2000±100	850±50	

3. ENGINE RPM CHECK

Remark: If the checked data is not normal, it indicates that the related system is not working properly. Therefore, it is required to check the related system pressure: See page 6-56.

1) Pump stall rpm

- Start the engine and raise the bucket approx 45 cm (1.5 ft) as the figure.
- Press the accelerator pedal fully and operate the bucket control lever to the retract position fully.
- Check the engine rpm at the above condition.



2) Convertor stall rpm

- Start the engine and lower the bucket on the ground as the figure.
- Set the I.C.C.O. mode at the OFF position.
- Press the brake pedal and accelerator pedal fully.
- Shift the transmission lever to the 4th forward position.
- Check the engine rpm at the above condition.

9802EG02

3) Full stall rpm

- Start the engine and raise the bucket approx 45 cm (1.5 ft) as the figure.
- Set the I.C.C.O. mode at the OFF position.
- Press the brake pedal and accelerator pedal fully .
- Shift the transmission lever to the 4th forward position and operate the bucket lever to the retract position fully.
- Check the engine rpm at the above condition.

