

## 4. MAINTENANCE CHECK LIST

### 1) DAILY SERVICE BEFORE STARTING

Check items	Service	Page
Visual check		
Fuel tank	Check, Refill	6-25
Hydraulic oil level	Check, Add	6-29
Engine oil level	Check, Add	6-17
Coolant level	Check, Add	6-19
Control panel & pilot lamp	Check, Clean	6-45
Water separator	Check, Drain	6-26
Fan belt tension	Check, Adjust	6-23, 24
★ Air cleaner element	Check, Clean	6-25

★ Severely dusty area operation only.

### 2) EVERY 50 HOURS SERVICE

Check items	Service	Page
Fuel tank(Water sediment)	Drain	6-25
Swing bearing	Lubricate	6-33
★ Air cleaner element	Check, Clean	6-25
Swing reduction gear oil	Check, Add	6-32
Lubricate pin and bushing	Lubricate	6-43
• Boom cylinder tube end		
• Boom foot		
• Boom cylinder rod end		
• Arm cylinder tube end		
• Arm cylinder rod end		
• Boom + Arm connecting		
• Bucket cylinder tube end		
• Bucket cylinder rod end		
• Arm + Bucket connecting		
• Arm + Link, Bucket control		
• Bucket control rod		
• Bucket link connecting		
• Dozer blade cylinder rod end	Lubricate	6-35
• Dozer blade pivot pin	Lubricate	6-35
• Dozer blade cylinder tube end	Lubricate	6-35
• Drive shaft(Front and rear)	Lubricate	6-34
• Axle pivot	Lubricate	6-34
• Hub pivot	Lubricate	6-34
• Steering links	Lubricate	6-34

★ Shorten cleaning interval for severely dusty area operation such as quarry, cement factory and etc .

★ Replace the inner & outer element after 6 times cleanings.

### 3) INITIAL 50 HOURS SERVICE

Check items	Service	Page
Engine oil	Change	6-17, 18
Engine oil filter	Replace	6-17, 18
Pilot line filter	Replace	6-32
Hydraulic return filter	Replace	6-31
Drain filter cartridge	Replace	6-32
Fuel filter	Replace	6-26
Bolts & Nuts	Check, Tight	6-8
• Power train mounting bolts		
• Swing motor mounting bolts		
• Swing bearing mounting bolts		
• Engine mounting bolts		
• Counterweight mounting bolts		
• Turning joint locating bolts		
• Hydraulic pump mounting bolts		

**Service the above items only for the new machine, and thereafter keep the normal service interval.**

### 4) EVERY 100 HOURS SERVICE

Check items	Service	Page
★ Return filter	Replace	6-31
★ Pilot line filter	Replace	6-32
★ Element in hydraulic tank breather	Replace	6-31
★ Drain filter cartridge	Replace	6-32
☆ Transmission oil	Change	6-39

**★ Replace 4 filters for continuous hydraulic breaker operation only.**

**☆ Change oil after initial 100 hours operation.**

### 5) EVERY 250 HOURS SERVICE

Check items	Service	Page
★ Engine oil	Change	6-17, 18
Battery electrolyte	Check, Add	6-45
★ Engine oil filter	Replace	6-17, 18
Air cleaner element(Inner and outer)	Replace	6-25
Hydraulic oil return filter	Replace	6-31
Pilot line filter	Replace	6-32
Drain filter cartridge	Replace	6-32
Element in hydraulic tank breather	Replace	6-31
☆ Swing reduction gear oil	Change	6-32
☆ Swing reduction grease	Check, Add	6-32
Axle & drive shaft	Lubricate	6-34
Axle oil level	Check, Add	6-37,38
Transmission oil	Check, Add	6-39
Bolts & Nuts	Check, Tight	6-8
• Power train mounting bolts		
• Swing motor mounting bolts		
• Swing bearing mounting bolts		
• Engine mounting bolts		
• Counterweight mounting bolts		
• Turning joint locating bolts		
• Hydraulic pump mounting bolts		

★ If you use high sulfur containing fuel above than 0.5% or use low grade of engine oil reduce change interval.

☆ Change oil after initial 250 hours operation.

### 6) EVERY 500 HOURS SERVICE

Check items	Service	Page
Radiator and cooler fin	Inspect, Clean	6-23
Fuel filter	Replace	6-26
★ Axle oil	Change	6-38

★ Change oil after initial 500 hours operation.

### 7) EVERY 1000 HOURS SERVICE

Check items	Service	Page
Swing reduction gear oil	Change	6-32
Swing reduction grease	Refill	6-32
Grease in swing gear and pinion	Change	6-33
Axle oil	Change	6-37, 38
Transmission oil	Change	6-39

## 8) EVERY 2000 HOURS SERVICE

Check items	Service	Page
Hydraulic tank		
★ · Oil	Change	6-30
· Suction strainer	Check, Clean	6-30
Coolant	Change	6-19, 20, 21, 22, 23

★Change oil every 600 hours of continuous hydraulic breaker operation.

## 9) WHEN REQUIRED

Whenever you have trouble in the machine, you must perform the service of related items, system by system.

Check items	Service	Page
Fuel system		
· Fuel tank	Drain, Clean	6-25
· Water separator	Drain, Replace	6-26
· Fuel filter	Replace	6-26
Engine lubrication system		
· Engine oil	Change	6-17, 18
· Engine oil filter	Replace	6-17, 18
Engine cooling system		
· Coolant	Add, Change	6-19, 20, 21, 22
· Radiator	Clean, Flush	6-19, 20, 21, 22, 23
Engine air system		
· Air cleaner	Replace	6-25
Hydraulic system		
· Hydraulic oil	Add, Change	6-29, 30
· Return filter	Replace	6-31
· Drain cartridge filter	Replace	6-32
· Pilot line filter	Replace	6-32
· Element of breather	Replace	6-31
· Suction strainer	Clean	6-30
Tire pressure	Check, Inflate	6-35
Bucket		
· Tooth	Replace	6-40
· Side cutter	Replace	6-40
· Linkage	Adjust	6-41
· Bucket assy	Replace	6-41
Air conditioner and heater		
· Outer filter	Check, Clean, Replace	6-48
· Inner filter	Check, Clean, Replace	6-48, 49