

## 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	6-30
Engine oil level	Check, Add	6-18
Coolant level	Check, Add	6-20
Control panel & pilot lamp	Check, Clean	6-44
Water separator(~#425)	Check, Drain	6-26
Prefilter(#426~)	Check, Clean	6-26
Fan belt tension & damage	Check, Adjust	6-24

### 2) EVERY 50 HOURS SERVICE

Check items	Service	Page
Fuel tank(Water sediment)	Drain	6-25
Swing bearing grease	Check, Add	6-33
Drive shaft grease(Flange bearing)	Check, Add	6-34
Swing reduction gear oil	Check, Add	6-33
Swing reduction gear grease	Check, Add	6-33
Transmission case oil	Check, Add	6-39
Wheel nuts	Check, Tighten	6-36
Tires(Air pressure)	Check, Inflat	6-36
Front axle pivot pin bushing	Check, Lubricate	6-35
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, tub end)	Lubricate	6-35
· Dozer blade pivot pin	Lubricate	6-35
· Outrigger(Pivot pin, cylinder pin)	Lubricate	6-35

### 3) INITIAL 50 HOURS SERVICE

Check items	Service	Page
Engine oil	Change	6-18, 19
Engine oil filter	Replace	6-18, 19
Prefilter(#426~)	Replace	6-26
Pilot line filter	Replace	6-32
Hydraulic return filter	Replace	6-31
Drain filter cartridge	Replace	6-32
Fuel filter element	Replace	6-26-1
Bolts & Nuts	Check, Tight	6-8
<ul style="list-style-type: none"> <li>· Power train mounting bolts</li> <li>· Swing motor mounting bolts</li> <li>· Swing bearing mounting bolts</li> <li>· Engine mounting bolts</li> <li>· Counterweight mounting bolts</li> <li>· Turning joint locating bolts</li> <li>· Hydraulic pump mounting bolts</li> </ul>		

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

### 4) INITIAL 100 HOURS SERVICE

Check items	Service	Page
Transmission oil	Change	6-39

### 5) EVERY 100 HOURS SERVICE

Check items	Service	Page
★ Return filter	Replace	6-31
★ Pilot line filter	Replace	6-32
★ Air breather element	Replace	6-31
★ Drain filter cartridge	Replace	6-32

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

### 6) INITIAL 250 HOURS SERVICE

Check items	Service	Page
Swing reduction gear oil	Change	6-33

## 7) EVERY 250 HOURS SERVICE

Check items	Service	Page
★Engine oil	Change	6-18, 19
★Engine oil filter	Replace	6-18, 19
Battery electrolyte	Check, Add	6-44
Aircon & heater flesh filter	Check, Clean	6-48
Hydraulic oil return filter	Replace	6-31
Pilot line filter	Replace	6-32
Drain filter cartridge	Replace	6-32
Air breather element	Replace	6-32
Front axle steering case grease	Lubricate	6-34, 35
Front & rear axle gear oil	Check, Add	6-37
Bolts & Nuts	Check, Tight	6-8
<ul style="list-style-type: none"> <li>· Power train mounting bolts</li> <li>· Swing motor mounting bolts</li> <li>· Swing bearing mounting bolts</li> <li>· Engine mounting bolts</li> <li>· Counterweight mounting bolts</li> <li>· Turning joint locating bolts</li> <li>· Hydraulic pump mounting bolts</li> </ul>		

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

## 8) INITIAL 500 HOURS SERVICE

Check items	Service	Page
Axle oil	Change	6-38

## 9) EVERY 500 HOURS SERVICE

Check items	Service	Page
Prefilter(#426~)	Change	6-26
Radiator, cooler fin and charge air cooler	Check, Clean	6-23
☆Air cleaner element(Primary)	Check, Clean	6-25
Fuel filter element	Replace	6-26-1

☆ Clean the primary element only after 500 hours operation or when the air cleaner warning lamp blinks. Replace primary element and safety element after 4 times cleanings of primary element.

**10) EVERY 1000 HOURS SERVICE**

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

**11) EVERY 2000 HOURS SERVICE**

Check items	Service	Page
Hydraulic tank		
★ · Oil	Change	6-31
· Suction strainer	Check, Clean	6-31
Coolant	Change	6-20, 21, 22, 23

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

## 12) 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 or Clean	6-25
· Water separator(~#425)	Drain or Replace	6-26
· Prefilter(#426~)	Clean or Replace	6-26
· Fuel filter element	Replace	6-26-1
Engine lubrication system		
· Engine oil	Change	6-18, 19
· Engine oil filter	Replace	6-18, 19
Engine cooling system		
· Coolant	Add or Change	6-20, 21, 22, 23
· Radiator	Clean or Flush	6-20, 21, 22, 23
· Charge air cooler	Check	6-23
Engine air system		
· Air cleaner element	Replace	6-25
Hydraulic system		
· Hydraulic oil	Add or Change	6-30
· Return filter	Replace	6-31
· Drain filter cartridge	Replace	6-32
· Pilot line filter	Replace	6-32
· Air breather element	Replace	6-32
· Suction strainer	Clean	6-31
Tire pressure	Check, Inflate	6-36
Bucket		
· Tooth	Replace	6-41
· Side cutter	Replace	6-41
· Linkage	Adjust	6-40
· Bucket assy	Replace	6-40
Air conditioner and heater		
· Fresh filter	Clean, Replace	6-47
· Recirculation filter	Clean	6-48