

## 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	6-18
Coolant level	Check, Add	6-20
Control panel & pilot lamp	Check, Clean	6-39
Water separator	Check, Drain	6-26
Fan belt tension	Check, Adjust	6-24

### 2) EVERY 50 HOURS SERVICE

Check items	Service	Page
Fuel tank	Drain	6-25
Track tension	Check, Adjust	6-34
Swing bearing	Lubricate	6-32
Swing reduction gear oil	Check, Add	6-32
Lubricate pin and bushing	Lubricate	6-38
<ul style="list-style-type: none"> <li>· Boom cylinder tube end</li> <li>· Boom foot</li> <li>· Boom cylinder rod end</li> <li>· Arm cylinder tube end</li> <li>· Arm cylinder rod end</li> <li>· Boom + Arm connecting</li> <li>· Bucket cylinder tube end</li> <li>· Bucket cylinder rod end</li> <li>· Arm + Bucket connecting</li> <li>· Arm + Link, Bucket control</li> <li>· Bucket control rod</li> </ul>		

### 3) INITIAL 50 HOURS SERVICE

Check items	Service	Page
Engine oil	Change	6-18, 19
Engine oil filter	Replace	6-18, 19
Pilot line filter	Replace	6-31
Hydraulic return filter	Replace	6-30
Drain filter cartridge	Replace	6-31
Fuel filter	Replace	6-26
Bolts & Nuts	Check, Tight	6-8
· Sprocket mounting bolts		
· Travel motor mounting bolts		
· Swing motor mounting bolts		
· Swing bearing mounting bolts		
· Engine mounting bolts		
· Counterweight mounting bolts		
· Turning joint locating bolts		
· Track shoe mounting bolts and nuts		
· 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	6-30
Pilot line filter	Replace	6-31
Element in hydraulic tank breather	Replace	6-31
Drain filter cartridge	Replace	6-31

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

## 5) 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	6-39
Hydraulic oil return filter	Replace	6-30
Drain filter cartridge	Replace	6-31
Swing reduction gear oil	Change	6-32
Swing reduction grease	Check, Add	6-32
Pilot line filter	Replace	6-31
Element in hydraulic tank breather	Replace	6-31
Bolts & Nuts	Check, Tight	6-8
· Sprocket mounting bolts		
· Travel motor mounting bolts		
· Swing motor mounting bolts		
· Swing bearing mounting bolts		
· Engine mounting bolts		
· Counterweight mounting bolts		
· Turning joint locating bolts		
· Track shoe mounting bolts and nuts		
· 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 and add grease after initial 250 hours of operation.

## 6) EVERY 500 HOURS SERVICE

Check items	Service	Page
Engine oil	Change	6-18, 19
Engine oil filter	Replace	6-18, 19
Radiator and cooler fin	Inspect, Clean	6-24
Air cleaner element	Check, Clean	6-25
Fuel filter	Replace	6-26
Travel reduction gear oil	Check, Add	6-33
Travel reduction gear oil	Change	6-33

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.

Change oil after initial 500 hours of operation.

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

**7) EVERY 1000 HOURS SERVICE**

Check items	Service	Page
Travel motor reduction gear oil	Change	6-33
Swing reduction gear oil	Change	6-32
Swing reduction grease	Refill	6-32
Grease in swing gear and pinion	Change	6-33

**8) EVERY 2000 HOURS SERVICE**

Check items	Service	Page
Hydraulic tank		
· Oil	Change	6-29
· Suction strainer	Check, Clean	6-30
Coolant	Change	6-20, 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 or Clean	6-25
· Water separator	Drain or Replace	6-26
· Fuel filter	Replace	6-26
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
Engine air system		
· Air cleaner element	Replace	6-25
Hydraulic system		
· Hydraulic oil	Add or Change	6-29
· Return filter	Replace	6-30
· Drain line filter	Replace	6-31
· Pilot line filter	Replace	6-31
· Element of breather	Replace	6-31
· Suction strainer	Clean	6-30
Undercarriage		
· Track tension	Check, Adjust	6-34
Bucket		
· Tooth	Replace	6-36
· Side cutter	Replace	6-36
· Linkage	Adjust	6-37
· Bucket assy	Replace	6-35
Air conditioner and heater		
· Fresh filter	Clean, Replace	6-42
· Recirculation filter	Clean	6-43