

## 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    | 6-27 |
| Engine oil level           | Check, Add    | 6-18 |
| Coolant level              | Check, Add    | 6-20 |
| Control panel & pilot lamp | Check, Clean  | 6-36 |
| Prefilter                  | Check, Drain  | 6-25 |
| Fan belt tension           | Check, Adjust | 6-23 |

### 2) EVERY 50 HOURS SERVICE

| Check items   | Service       | Page     |
|---|---------------|----------|
| Fuel tank   | Drain         | 6-25     |
| Track tension   | Check, Adjust | 6-32     |
| Swing bearing   | Lubricate     | 6-30     |
| Swing reduction gear oil  | Check, Add    | 6-29, 30 |
| Lubricate pin and bushing   | Lubricate     | 6-35     |
| <ul style="list-style-type: none"> <li>· Boom cylinder head and rod</li> <li>· Boom connecting</li> <li>· Arm cylinder head and rod</li> <li>· Boom + Arm connecting</li> <li>· Bucket cylinder head and rod</li> <li>· Arm + Bucket connecting</li> <li>· Arm + Link, Bucket control</li> <li>· Bucket control rod</li> <li>· Boom swing post + Upper frame connecting</li> <li>· Boom swing cylinder head and rod</li> <li>· Dozer blade + Lower frame connecting</li> <li>· Dozer blade cylinder head and 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 |
| Fuel filter  | Replace      | 6-26     |
| Bolts & Nuts   | Check, Tight | 6-8      |
| <ul style="list-style-type: none"> <li>· Sprocket mounting bolts</li> <li>· Travel motor 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>· Track shoe mounting bolts and nuts</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) EVERY 100 HOURS SERVICE

| Check items                          | Service | Page |
|--------------------------------------|---------|------|
| ★ Element in hydraulic tank breather | Replace | 6-29 |

★ Replace filter for continuous hydraulic breaker operation only.

### 5) INITIAL 250 HOURS SERVICE

| Check items              | Service | Page |
|--------------------------|---------|------|
| Pilot line filter        | Replace | 6-29 |
| Hydraulic return filter  | Replace | 6-28 |
| Swing reduction gear oil | Change  | 6-30 |

## 6) EVERY 250 HOURS SERVICE

| Check items                          | Service      | Page     |
|--------------------------------------|--------------|----------|
| Battery electrolyte                  | Check        | 6-36     |
| ☆ Swing reduction gear oil           | Change       | 6-29, 30 |
| Element in hydraulic tank breather   | Replace      | 6-29     |
| 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      |              |          |

☆ Change oil after initial 250 hours of operation.

## 7) 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      | Check, Clean   | 6-23     |
| ☆ Air cleaner element        | Inspect, Clean | 6-24     |
| Fuel filter & fuel prefilter | Replace        | 6-26     |
| ◆ Travel reduction gear oil  | Change         | 6-31     |
| ◎ Hydraulic return filter    | Replace        | 6-28     |
| ◎ Pilot line filter          | Replace        | 6-29     |

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

☆ 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.

◎ Replace 2 filter for continuous hydraulic breaker operation only.

### 8) EVERY 1000 HOURS SERVICE

| Check items                     | Service | Page     |
|---------------------------------|---------|----------|
| Travel motor reduction gear oil | Change  | 6-31     |
| Swing reduction gear oil        | Change  | 6-29, 30 |
| Hydraulic return filter         | Replace | 6-28     |
| Pilot line filter               | Replace | 6-29     |

### 9) EVERY 2000 HOURS SERVICE

| Check items        | Service      | Page             |
|--------------------|--------------|------------------|
| Hydraulic tank     |              |                  |
| ★ · Oil            | Change       | 6-27             |
| · Suction strainer | Check, Clean | 6-28             |
| 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             |
| · Prefilter                | Drain or Replace | 6-25             |
| · 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              | Replace          | 6-24             |
| Hydraulic system           |                  |                  |
| · Hydraulic oil            | Add or Change    | 6-27             |
| · Return filter            | Replace          | 6-28             |
| · Pilot line filter        | Replace          | 6-29             |
| · Element of breather      | Replace          | 6-29             |
| · Suction strainer         | Clean            | 6-28             |
| Under carriage             |                  |                  |
| · Track tension            | Check, Adjust    | 6-32             |
| Bucket                     |                  |                  |
| · Tooth                    | Replace          | 6-34             |
| · Side cutter              | Replace          | 6-33             |
| · Linkage                  | Adjust           | 6-33             |
| · Bucket assy              | Replace          | 6-33             |
| Air conditioner and heater |                  |                  |
| · Circulation filter       | Clean            | 6-39             |