Maintenance Schedules

General

⚠ **WARNING** Maintenance must be done only by suitably qualified and competent persons.

Before doing any maintenance make sure the machine is safe, it must be correctly parked on firm, level ground.

To prevent anyone starting the engine, remove the ignition key. Disconnect the battery (by means of the battery isolator if installed) when you are not using electrical power. If you do not take these precautions you could be killed or injured.

WARNING All scheduled and routine maintenance/daily tasks should be conducted with the machine cool. Checking or servicing a hot machine could lead to injury.

A badly maintained machine is a danger to the operator and the people working around the operator. Make sure that the regular maintenance and lubrication tasks listed in the service schedules are done to keep the machine in a safe and efficient working condition.

To ensure the correct functioning of the engine and emissions control system all operation and maintenance must be conducted in accordance with the instructions in this manual. Incorrect operation, maintenance or repair of the engine and emissions control system may lead to reduced product life, loss of performance or malfunctions. It is the machine owner's responsibility to ensure maintenance is conducted properly in accordance with the requirements in this manual.

Apart from the daily tasks, the schedules are based on the machine running hours. Keep a regular check on the hourmeter readings to correctly gauge the service intervals. When there is no hourmeter installed, use the calendar equivalents to determine the service intervals.

Do not use a machine which is due for a service. Make sure any defects found during the regular maintenance checks are corrected immediately.

More frequent checks of engine components than the engine manufacturer recommends do not invalidate emissions warranty.

How to Use the Maintenance Schedules

The schedules show the service tasks which must be done and their intervals

The 10h and 50h service tasks can be done by the operator. Details of how to do the service tasks are given in this manual and the schedules include a page reference. The remaining service tasks must be done by your JCB dealer.

The services must be done at either the hourly interval or the calendar equivalent, whichever occurs first.

The intervals given in the schedules must not be exceeded. If the machine is operated under severe conditions (high temperature, dust, water, etc.) shorten the intervals.

Table 13.

○	Service task can be completed by a competent operator. Details of how to complete the service task are given in the Operator's Manual.
□	We recommend that a Service Engineer completes the service task. Details of how to complete the service task are given in the Service Manual.

Maintenance Intervals

Table 14.

Interval (h)	Calendar Equivalent
10	Daily
50	Weekly
500	Yearly
1000	Two Years

Operator Maintenance Tasks

Table 15.

Component	Task	10	50
Engine			
Oil Level	Check	O	O
Coolant Quality/ level	Check	O	O
Coolant or Oil Leaks	Check	O	O
Water Separator	Check for Contamination and Drain		O
All Hoses - Condition	Check	O	O
FEAD (Front End Accessory Drive) belt	Check (condition/tension)		O
Air filter dust valve	Check	O	O
Fuel pipes and clamp bands	Check		O
Exhaust smoke.	Check		O
Drum, Transmission and steering			
Drum Scrapers	Clean	O	O
Drum scrapers	Check	O	O
Drum Distance Spacers / Buffer[1]	Check (if necessary)		O
Vibration operation	Check	O	O
Sprinkler system operation.	Check	O	O
Hydraulics			
Oil	Check (Level)	O	O
Hoses - Damage or Leaks	Check	O	O
Rams - Chrome condition, leaks, security	Check		O
Operation all services.	Check		O
Brakes			
Drive brake-operation	Check	O	O
Park brake -operation	Check	O	O
Electrics			
Wiring for damage/routing	Check (Condition)		O
Battery Mounting	Check (Condition)		O
Battery Terminals for Condition and Tightness	Check (Condition)		O
All electrical equipments operation (e.g. warning lights, beacon, alarm, horn etc.)	Check	O	O
Engine stop	Check	O	O
Bodywork and Cab			
Safety Decals/Notes	Check	O	O
Cab Isolation Mounts	Check		O
ROPS (Roll-Over Protective Structure)	Check (Condition)	O	O
Seat Belt - Condition, operation and security (If fitted)	Check	O	O
Machine Generally including paintwork	Check for Damage and Clean	O	O

Component	Task	10	50
Operator's seat safety switch (if installed)	Check	O	O
Neutral start operation	Check	O	O

(1) Check the tightness of the bolts/screws every day for the first week (when machine is new), then thereafter every 500h.

Service Engineer Maintenance Tasks

Start the engine to do these maintenance tasks. Engine can be started, if the drive lever is in park brake position. It is not mandatory to occupy the operator seat before starting the engine.

Table 16.

Component	Task	100 (5)	500	1,000	2,000
Engine					
Oil Level	Check	☐	☐	☐	☐
Oil and Filter	Change		☐	☐	☐
Coolant Quality/ level	Check	☐	☐	☐	☐
Coolant or Oil Leaks	Check	☐	☐	☐	☐
Coolant (inorganic)(6)	Drain and Fill				☐
Coolant OAT (Organic Acid Technology)(6, 7)	Drain and Fill				
Water Separator	Check for Contamination and Drain	☐	☐	☐	☐
Fuel filter element	Change		☐	☐	☐
Fuel pre filter (inline)	Change		☐	☐	☐
Fuel tank and filler	Drain/Clean		☐	☐	☐
All Hoses - Condition	Check		☐	☐	☐
Radiator	Clean		☐	☐	☐
FEAD (Front End Accessory Drive) belt	Check (condition/tension)		☐	☐	☐
FEAD belt	Change				☐
Air Cleaner Outer Element(3)	Change		☐	☐	☐
Air Cleaner Inner Element	Change			☐	☐
Air filter dust valve	Check	☐	☐	☐	☐
Fuel pipes and clamp bands	Check		☐	☐	☐
Fuel pipes and clamp bands(4)	Change				☐
Turbo charger(4)	Check (condition)				☐
Injection Pump(4)	Check (condition)				☐
Injector pressure(4)	Check			☐	☐
Idle Speed	Check and Adjust		☐	☐	☐
Maximum No load condition.	Check	☐	☐	☐	☐
Exhaust smoke.	Check	☐	☐	☐	☐
Exhaust system security	Check	☐	☐	☐	☐
Air Inlet system security	Check	☐	☐	☐	☐

Component	Task	100 [5]	500	1,000	2,000
Engine Mode Switch	Check	☐	☐	☐	☐
Drum, Transmission and steering					
Drum Scrapers	Clean		☐	☐	☐
Drum scrapers	Check	☐	☐	☐	☐
Drum Rubber Buffers	Check		☐	☐	☐
Drum distance spacers / Buffer fastners	Check	☐	☐	☐	☐
Forward/ Reverse operation	Check	☐	☐	☐	☐
Vibration operation	Check	☐	☐	☐	☐
Sprinkler system operation.	Check	☐	☐	☐	☐
Steer circuit pressure	Check	☐	☐	☐	☐
Articulation joint	Check		☐	☐	☐
Hydraulics					
Oil	Check (Level)		☐	☐	☐
Oil	Change			☐	☐
Oil reservoir	Clean				☐
Oil filter[8]	Replace		☐	☐	☐
Hoses - Damage or Leaks	Check		☐	☐	☐
Rams - Chrome condition, leaks, security	Check		☐	☐	☐
Charge pressure	Check	☐	☐	☐	☐
Operation all services.	Check	☐	☐	☐	☐
Brakes					
Drive brake-operation	Check	☐	☐	☐	☐
Park brake -operation	Check	☐	☐	☐	☐
Electrics					
Battery charge indicator	Check		☐	☐	☐
Wiring for damage/routing	Check (Condition)		☐	☐	☐
Battery mounting	Check (Condition)		☐	☐	☐
Battery Terminals for Condition and Tightness	Check (Condition)		☐	☐	☐
Battery vent holes	Clean		☐	☐	☐
Starter Motor[2]	Check				
Alternator- Output[2]	Check				
All electrical equipments operation(e.g. warning lights, beacon, alarm, horn etc	Check	☐	☐	☐	☐
Engine stop	Check	☐	☐	☐	☐
Bodywork and Cab					
Safety Decals/Notes	Check		☐	☐	☐
Cab Isolation Mounts	Check		☐	☐	☐
ROPS (Roll-Over Protective Structure)	Check (Condition)		☐	☐	☐
Seat Belt - Condition, operation and security (If fitted)	Check		☐	☐	☐

Component	Task	100 (5)	500	1,000	2,000
Machine Generally including paintwork	Check for Damage and Clean		☐	☐	☐
Operator's seat safety switch (if installed)	Check	☐	☐	☐	☐
Neutral start operation	Check	☐	☐	☐	☐

(1) Check the tightness of the bolts/screws every day for the first week (when machine is new), then thereafter every 500h.
(2) Every 5,000h
(3) If operating in dusty adverse working environments, do these jobs more frequently.
(4) These jobs must be done by a qualified engineer.
(5) First 100hrs service to be completed by your JCB dealer.
(6) Check which coolant type is installed in the machine before topping up the coolant. Mixing of different coolant types is likely to impair corrosion inhibiting performance and may result in invalidation of the warranty offered by JCB. In the event of mixing or if the coolant type is to be changed, the coolant circuit should be completely drained and flushed with clean water before re-filling with fresh coolant.
(7) Replace every 4000h.
(8) Change at recommended interval - or when the warning light is ON