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 solid, 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.

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 11.

○	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 12.

Interval (h)	Calendar Equivalent
10	Daily
50	Weekly
400	Six months
800	Yearly
2000	Two years

Pre-start Cold Checks, Service Points and Fluid Levels

Table 13.

Component	Task	10	50	400	800	2,000
Engine						
Oil Level	Check	○	○	□	□	□
Oil and Filter[2]	Change			□	□	□
Coolant Quality/ level	Check	○	○	□	□	□
Coolant or Oil Leaks	Check	○	○	□	□	□
Coolant System	Drain and Fill					□
Water Separator	Check for Contamination and Drain		○	□	□	□
Water Separator Element/ Fuel Filter	Change			□	□	□
Fuel 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	○	○	□	□	□
Valve Clearances[1, 4]	Check and adjust				□	
Injectors pressures[4]	Check				□	□
Fuel pipes and clamp bands	Check		○	□	□	□
Fuel pipes and clamp bands[4]	Change					□
Turbo charger[4]	Check (condition)					□
Injection Pump[4]	Check (condition)					□

(1) Check every 800h
(2) Engine oil and oil filter change at first 50h then every 400h thereafter
(3) If operating in dusty adverse working environments, do these jobs more frequently.
(4) These jobs must be done by a qualified engineer.

Table 14.

Component	Task	10	50	400	800	2,000
Drum and Steering						
Drum Scrapers	Clean	○	○	□	□	□
Drum Rubber Buffers	Check			□	□	□
Drum bearing[2]	Lubricate					
Drum Distance Spacers / Buffer[1]	Check/ Change(if necessary)		○	□	□	□
Articulation Joint	Check			□	□	□
Hydraulics						
Oil	Check (Level)	○	○	□	□	□
Oil	Replace					□

Component	Task	10	50	400	800	2,000
Oil Reservoir	Clean					☐
Oil Filter	Replace				☐	☐
Hoses - Damage or Leaks	Check	○	○	☐	☐	☐
Rams - Chrome condition, leaks, security	Check		○	☐	☐	☐
Electrics						
Battery charge indicator	Check			☐	☐	☐
Wiring for damage/routing	Check (Condition)		○	☐	☐	☐
Battery Mounting	Check (Condition)		○	☐	☐	☐
Battery Terminals for Condition and Tightness	Check (Condition)		○	☐	☐	☐
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	○	○	☐	☐	☐
Machine Generally including paintwork	Check for Damage and Clean	○	○	☐	☐	☐

(1) Check the tightness of the bolts/screws every day for the first week (when machine is new), then thereafter every 400h.
(2) Drum bearing must be lubricated after 4,000h of operation.

Functional Tests and Final Inspection

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 15.

Item	Operation	10h	50h	50h(1)	400h	800h	2,000h
Engine							
Idle Speed	Check and Adjust			☐	☐	☐	☐
Maximum No load condition.	Check			☐	☐	☐	☐
Exhaust smoke.	Check		○	☐	☐	☐	☐
Exhaust system security	Check			☐	☐	☐	☐
Air Inlet system security	Check			☐	☐	☐	☐
Throttle system and control cables	Check			☐	☐	☐	☐
Transmission and steering.							
Forward/ Reverse operation	Check			☐	☐	☐	☐
Vibration operation	Check	○	○	☐	☐	☐	☐
Steer circuit pressure	Check			☐	☐	☐	☐
Sprinkler system operation.	Check	○	○	☐	☐	☐	☐
Hydraulics							
Charge pressure	Check			☐	☐	☐	☐

Item	Operation	10h	50h	50h[1]	400h	800h	2,000h
Operation all services.	Check		O	□	□	□	□
Brakes							
Drive brake-operation	Check	O	O	□	□	□	□
Park brake -operation	Check	O	O	□	□	□	□
Electrics							
Starter Motor	Check			□	□	□	□
Alternator- Output	Check			□	□	□	□
All electrical equipments operation(e.g. warning lights, beacon, alarm, horn etc	Check	O	O	□	□	□	□
Operation of stop controls/ESOS (Engine Shut-Off Solenoid))	Check	O	O	□	□	□	□
Body and Framework							
Drum scrapers	Check	O	O	□	□	□	□
Operator's seat safety switch (if installed)	Check	O	O	□	□	□	□
Neutral start operation	Check	O	O	□	□	□	□

(1) First 50hrs service to be completed by your JCB dealer