1650K
Crawler Dozer
Tier II Engine

Operator's Manual

Bur 6-38100GB

CASE
CONSTRUCTION

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TABLE OF CONTENTS

ITEM	PAGE
SAFETY RULES	I-VII
Decommissioning the machine	VII
Dispose of wastes in an appropriate manner	VII
FOREWORD	VIII
IDENTIFICATION DATA	2
COMFORT LEVEL	3
GENERAL SPECIFICATIONS	4
Main dimensions	7
Possible arrangements/Stability	11
List and location of safety decals	12
Preliminary instructions and break-in period	20
OPERATION RULES	21
First operation decal	22
CONTROLS AND INSTRUMENTS	23
OPERATING INSTRUCTIONS	38
General information	38
Prior to starting (daily)	38
Engine starting	38
Stopping the machine	40
Stopping the engine	41
Operator's seat adjustment	41
Fuel reservoir	42
Blade adjustment	42
Cab tilting	43
Lowering the cab	44
Oil refilling and bleeding of the cab tilting system	44
Disengaging the brakes	45
Moving the machine with outside means	46
Towing and recovering the machine	46
Istructions for lowering the equipment to the ground with engine inoperative	47
Transporting the machine	48
Long storage of the machine	49
Cold climate precautions	49
Starting the machine at low temperatures	50
MACHINE OPERATION	51
CAB	60
MAINTENANCE	64
Maintenance operations	65
Walk around inspection	65
List of programmed mantenance	67
Every 10 hours work	69
Every 100 hours work	72
Every 250 hours work	75
Every 500 hours work	79
Every 1000 hours work	83
Every 2000 hours work	88
When required	92

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ITEM **PAGE**

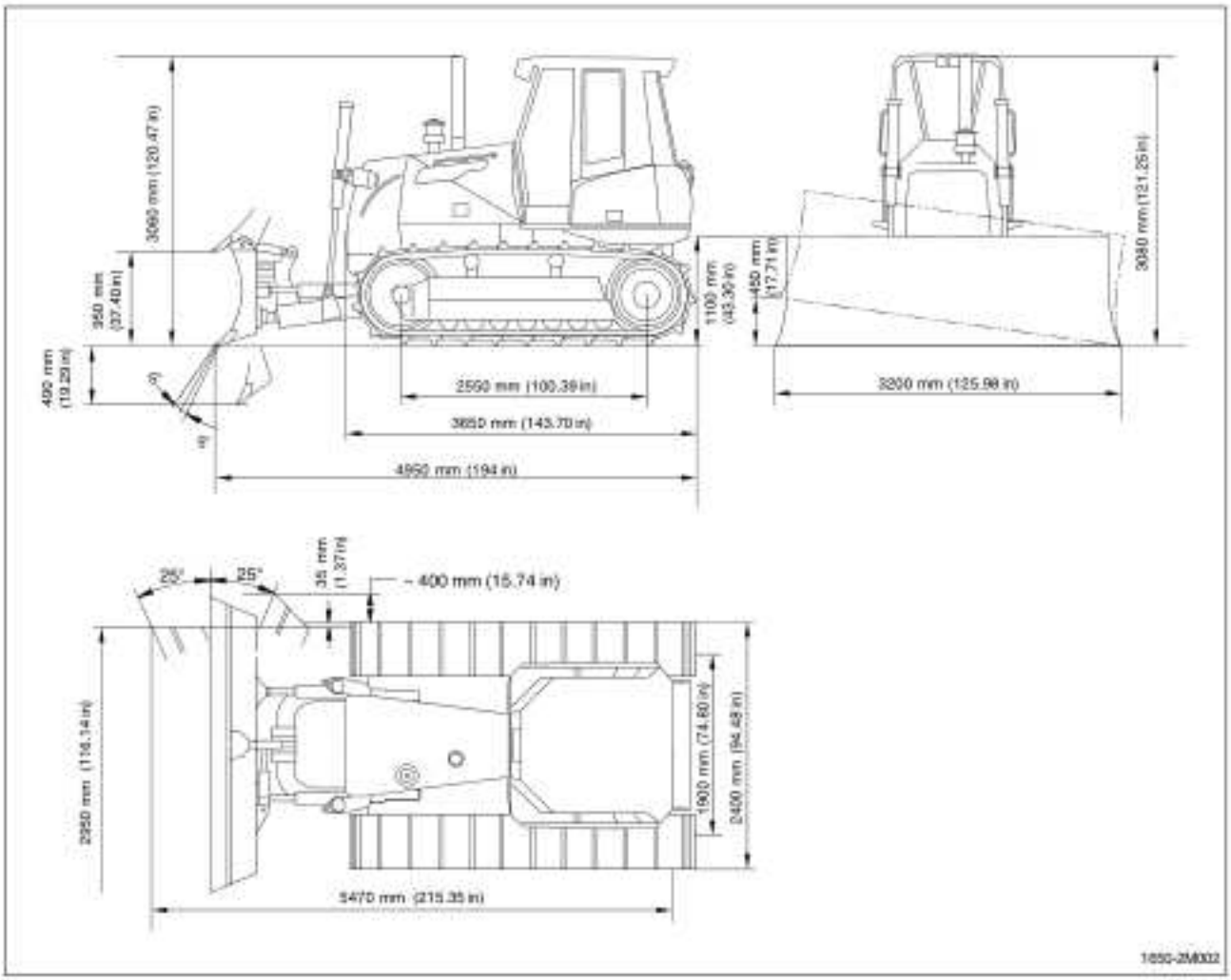
ELECTRICAL SYSTEM 94
Megafuse 200A 94
Fuses 95
Link fuses 96
Electrical diagram of protection tree 97

TABLE OF FLUID CAPACITIES 98

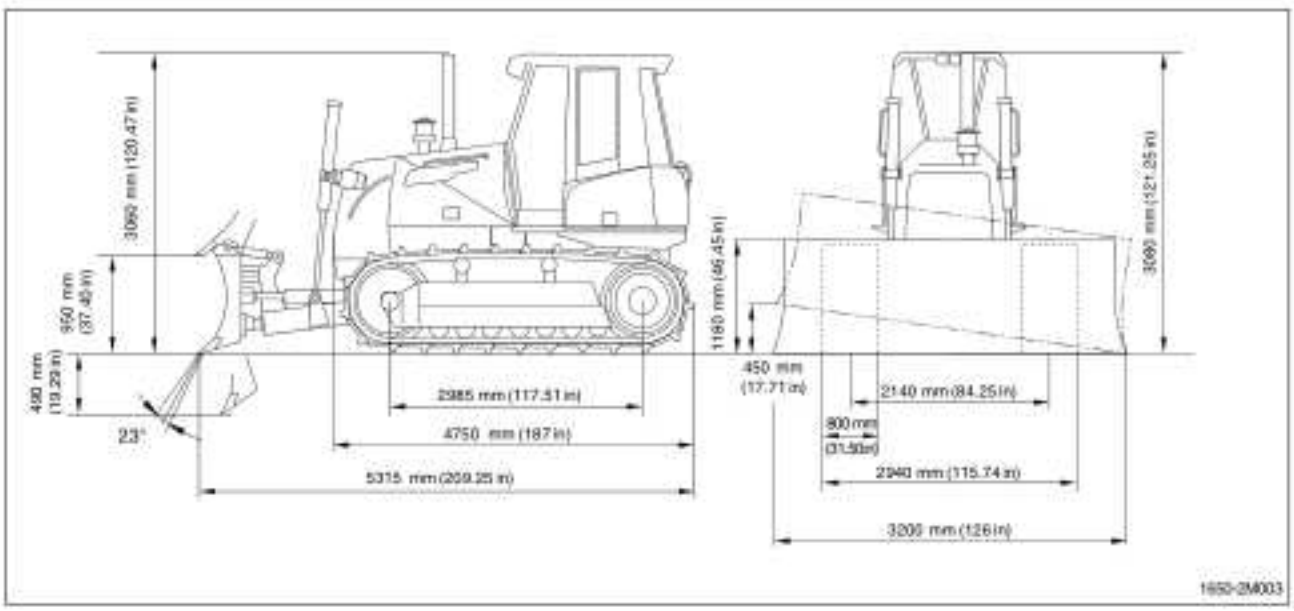
GENERAL ELECTRICAL DIAGRAM ..... Inside back cover

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MAIN DIMENSIONS XLT PAT

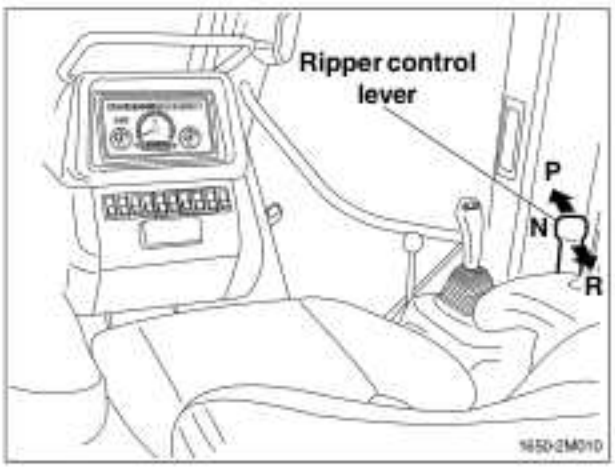


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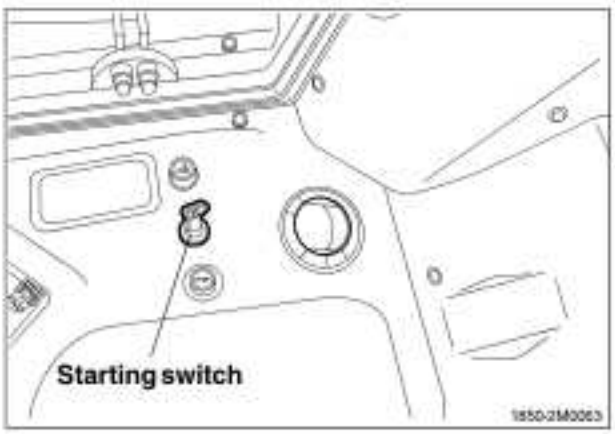
4. RIPPER CONTROL LEVER (upon request)

- With lever forward in **P** = ripper lowering
- With lever backward in **R** = ripper raising
- Lever in **N** = neutral

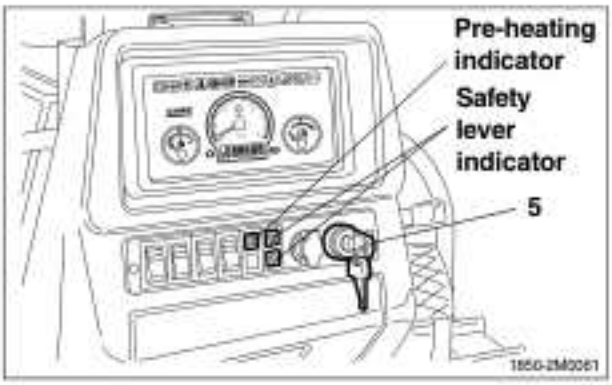




5. ENGINE STARTING SWITCH



on CAB



on ROPS

WARNING

Prior to starting the engine, make sure that the Joy-stick is in neutral position and that the parking brake is engaged.

The starter switch starts and shuts-off the engine.
To actuate it, turn the key:

Position H: Operation to be perfomed only on machines equipped with cold starting device.
Arrange the machine as described at point (STARTING THE MACHINE AT COLD TEMPERATURES)

Engine pre-heating position
Place the starter key onto "**H**" position when the temperature is particularly low (less than - 15 °C (5 °F).
Keep the key in this position for a time sufficient to allow the pre-heating. The time changes depending upon the ambient temperature.
see Table **A**. In this position, for the entire duration of the pre-heater, the pre-heater indicator light is ON.

WARNING

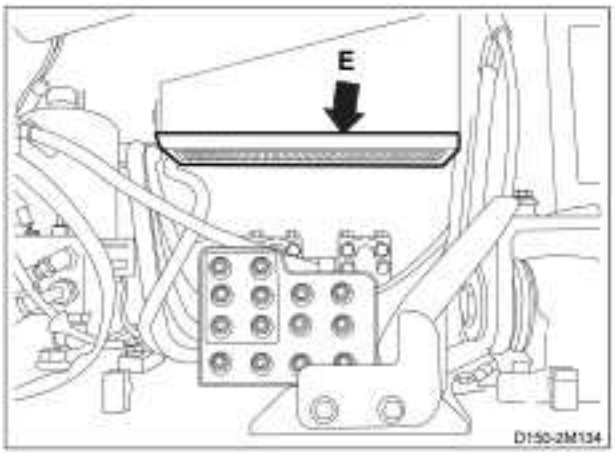
Do not pre-heat the engine more than 30 seconds, to avoid possible damages to the glow plug.

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20. CAB VENTILATION AIR FILTER AND AIR RE-CIRCULATION FILTER - Replace

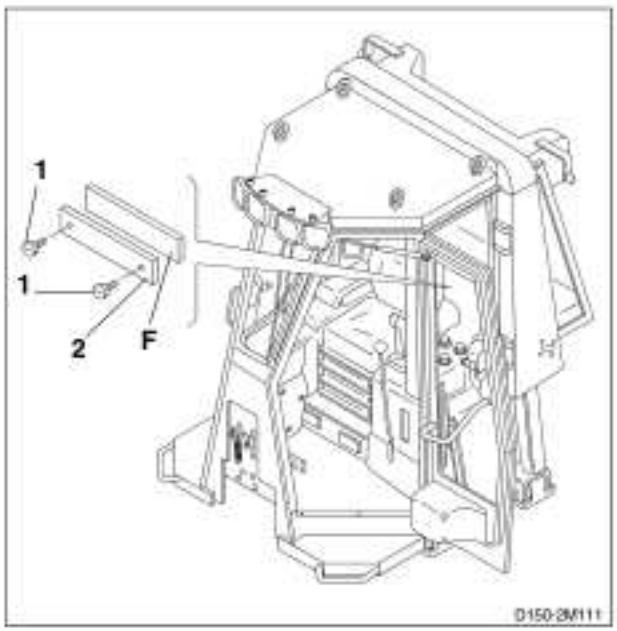
To reach the air cleaner, open the panel under the cab, on the left side of the machine. Remove the retaining device and extract the filter **E** using the appropriate handles.

Note – *Before re-installing the filter, clean the inside of the air box.*



RECIRCULATION AIR FILTER

Change the filter (**F**) located behind operator's seat:
- Unscrew the two retaining knobs (**1**) of the filter container.
- Install a new filter into the container and tighten the two knobs.

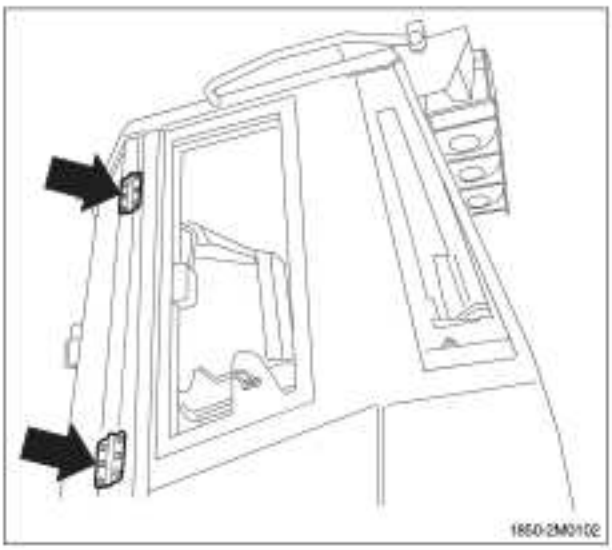


WARNING

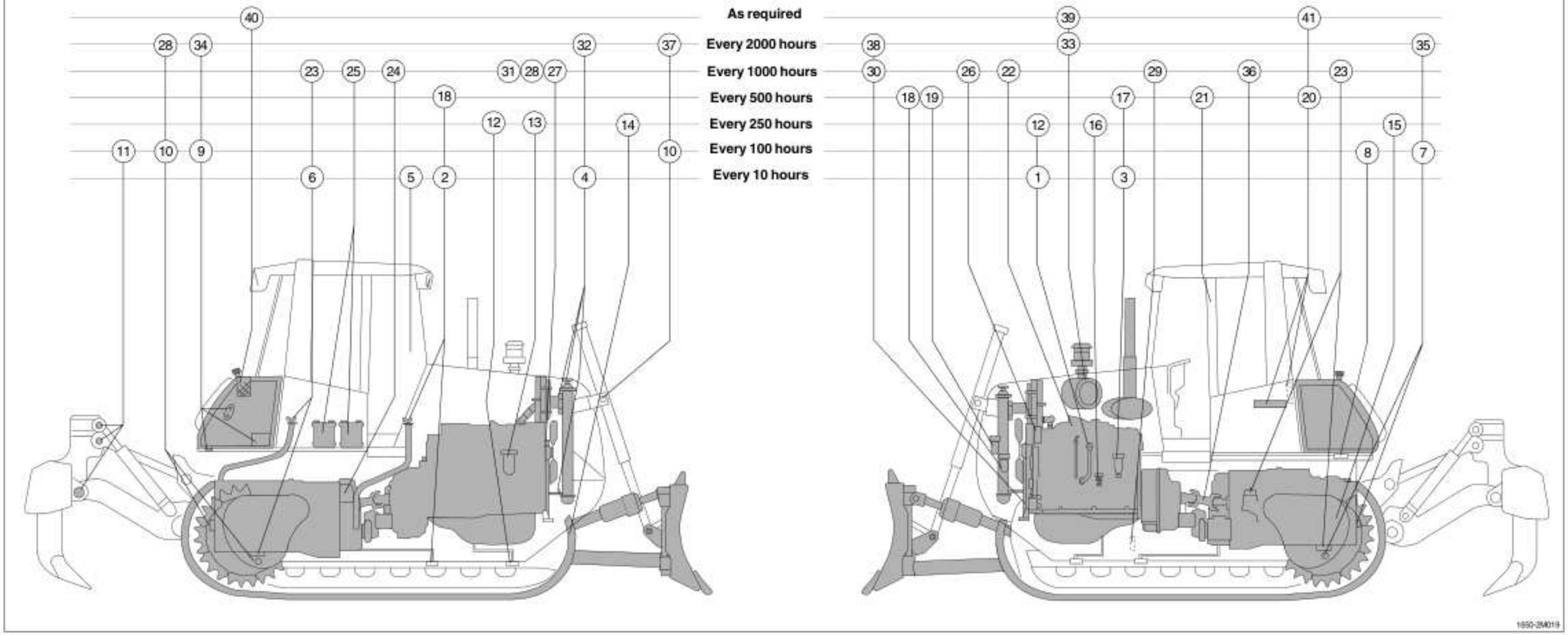
Wear safety glasses with side shields when using compressed air to clean parts, so that the danger of personal injuries due to flying particles is reduced. Limit the pressure to 2 bar (29 p.s.i.) in accordance with local and national regulations.

21. DOORS GREASE FITTINGS - Grease pivot

Lubricate the door hinges through the grease fittings indicated.



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EVERY 10 HOURS WORK (daily)

1. **Engine oil:** check oil level.
2. **Torque converter/transmission circuit hydraulic system:** check oil level.
3. **Fuel filter:** draining condensation.
4. **Radiator:** check coolant level.
5. **Braking system:** indicator light check.

EVERY 100 HOURS WORK

6. **Bevel gear, steering and brakes:** check oil level.
7. **Final drives:** check oil level.
8. **Fuel reservoir:** drain condensation.
9. **Equipment hydraulic system:** check oil level.
10. **Blade cylinder linkage pivots:** grease pivots.
11. **Ripper linkage pivots:** grease pivots.

EVERY 250 HOURS WORK

12. **Engine sump:** change oil.
13. **Engine oil filter:** change filtering cartridge.
14. **Undercarriage:** check sag of track chains.
15. **Brake system:** operating check.
16. **Glass fuel filter:** clean mesh filter.

EVERY 500 HOURS WORK

17. **Fuel filter:** replace filter.
18. **Steering and brakes circuit delivery oil filter:** replace cartridge.
19. **Torque converter-transmission hydraulic system:** change oil and delivery filter cartridge.
20. **Cab ventilation air filters:** replace filters.
21. **Doors grease fittings:** grease pivot.

EVERY 1000 HOURS WORK

22. **Valve clearance:** check valve clearance, with cold engine.
23. **Bevel gear, steering and brakes:** change oil and wash suction filter.
24. **Torque converter-transmission circuit:** wash suction filter and magnetic rod.
25. **Batteries:** check electrolyte level.
26. **Air conditioner compressor:** check condition of belt and adjust sag.
27. **Drive belt:** inspection/replacement.
28. **Drive belt:** inspection-tension of drive belt.
29. **Undercarriage suspension:** Grease fittings, oscillating cross-bar.
30. **Crankshaft pulley:** check.
31. **Belt tightener:** check.

EVERY 2000 HOURS WORK

32. **Radiator:** change coolant.
33. **Clogged engine air cleaner:** Replace cartridges.
34. **Equipment hydraulic circuit:** change oil, clean magnetic rod and suction filter.
35. **Final drives:** change oil.
36. **Torque converter to transmission prop shaft:** grease spiders (two fittings).
37. **Blade cylinder linkage pivots:** grease pivots.
38. **Vibration damper:** check.

AS REQUIRED

Operations to be performed when relevant indicators come ON:

39. **Engine air cleaner:** clean cartridges.
40. **Equipment hydraulic system return oil filter:** replace cartridge.
41. **Cab ventilation air filter:** clean filter.

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