JCB VIBROMAX

TÜV CERT
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QA-Nr.: 0410020032178

VM 46 D / PD

Vibratory Single Drum Roller

Instruction Manual

07211/28435A

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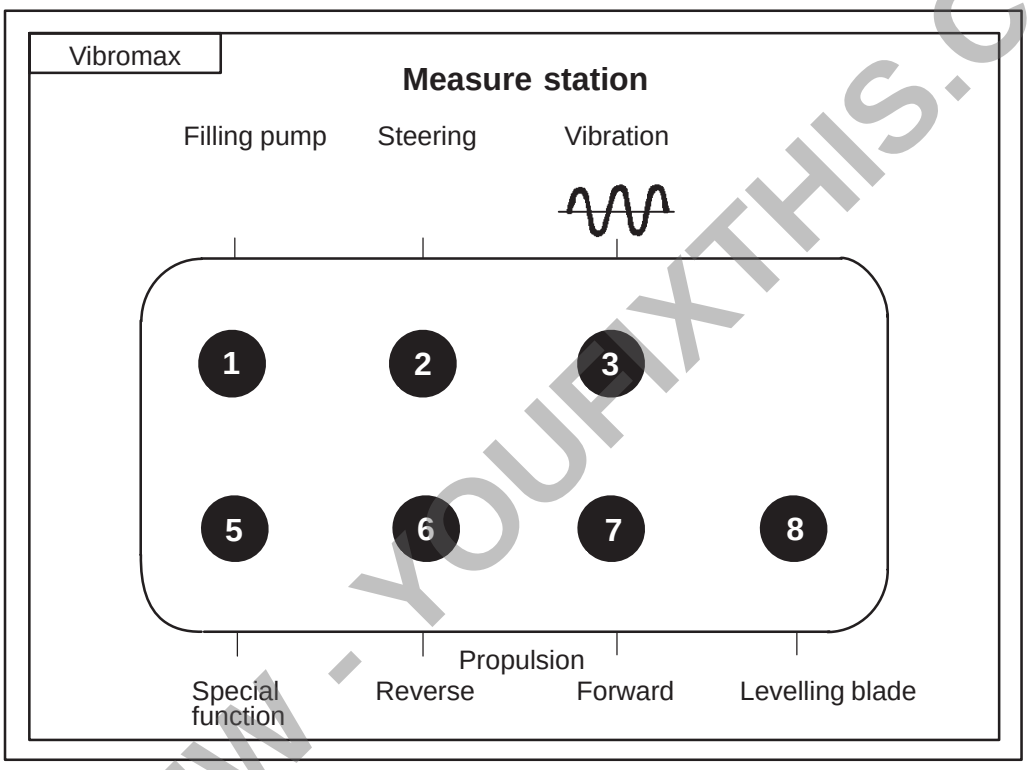
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22.0 HYDRAULIC CIRCUIT DIAGRAM – MEASUREMENT POINTS AND MULTIPLE – FUNCTION VALVE

See pages 64 and 65 regarding the hydraulic system.

The hydraulic system should be inspected only by trained staff.
See pages 80 and 81 regarding identification of the hydraulic components.

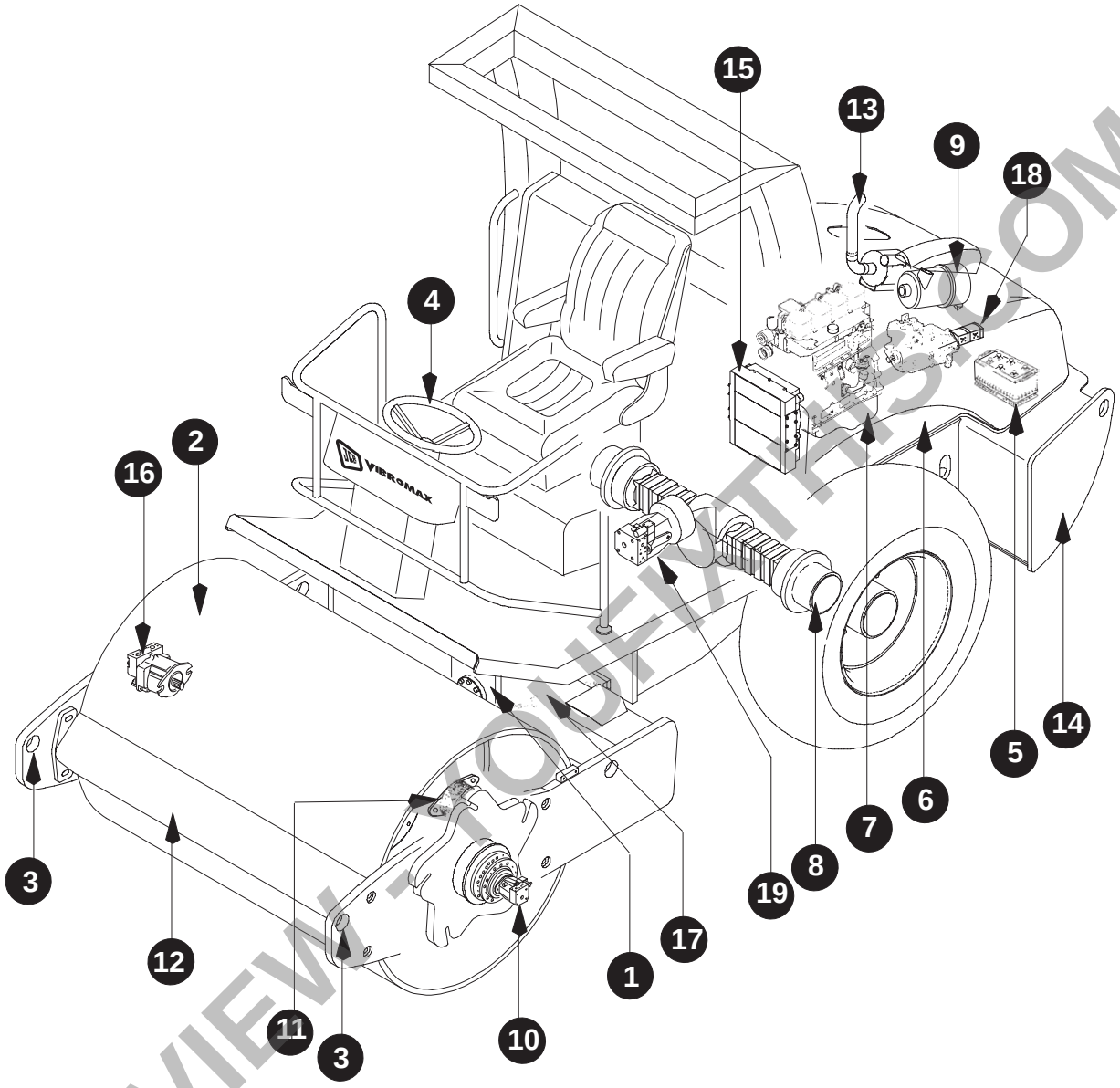
Hydraulic measurement points



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4.0 IDENTIFYING THE MACHINE PARTS



1. Articulation joint
2. Smooth drum
3. Lifting and towing eyes
4. Operator's stand
5. Battery
6. Hydraulic oil tank
7. Diesel engine
8. Axle
9. Air filter
10. Drum drive gear box (Drum)
11. Buffer pad
12. Scraper
13. Exhaust
14. Fuel tank
15. Cooler
16. Vibration motor
17. Steering cylinder
18. Hydropump block
19. Hydraulic motor (Axle)

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20.0 OPERATOR'S STAND

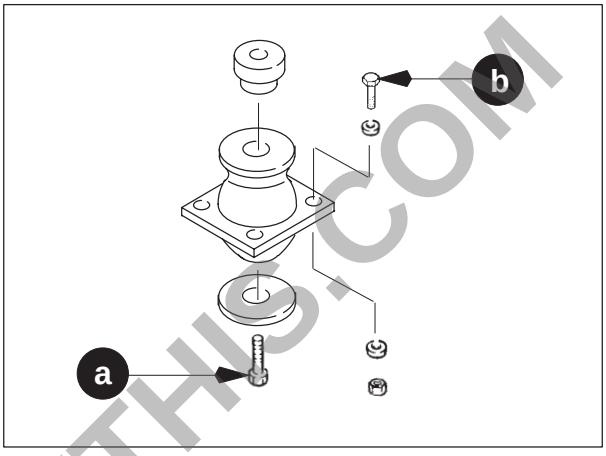
Maintenance

Check the rubber pads on the operator's stand for tears and damage every 250 hours of operation.
If necessary, consult a VIBROMAX dealer regarding replacement of the rubber pads.



Tightening torques

The operator's stand is held on the frame by means of four rubber buffer.



a) Tightening torque 210 Nm
b) Tightening torque 49 Nm

ROLL–OVER PROTECTION STRUCTURE

Before operating the machine, ensure that the ROPS is fastened properly and is not damaged in any way.

Maintenance

Carry out the following work every 1000 hours:

1. Check the tightness of the fastening screws and, if necessary, tighten the screws.

2. Check the ROPS for damage.

Damage

If the ROPS has been damaged by the machine rolling over, by striking an obstruction during transport etc., the damaged parts must be replaced before the machine is operated again.

After such damage has occurred, check the following:

– Check the ROPS for compression, bend ing, notches, cracks etc.

– Inspect the fastening screws of the ROPS and check their tightening torques.

– Inspect the operator's seat and the seat belt and their mounting parts. Check the tightening torques.

Before operating the machine again, replace all damaged parts (see the spare parts catalogue) or see a VIBROMAX dealer regarding the correct parts.

Do not attempt to weld or straighten the ROPS.

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Jump start

First make sure, that the vehicle (and it's battery), that gives you jump start, has a voltage of 12 V.

Carry out the following steps:

1. Connect the positive battery poles.
2. Connect the negative battery poles.
3. Start the vehicle, that gives jump start.
4. Start the vehicle, that receives jump start.
5. Set down the vehicle, that gives jump start.
6. Disconnect the negative poles.
7. Disconnect the positive poles.

STARTING THE ENGINE

1. Ensure that the transport mounting is in the driving position.
2. Ensure that there are no blocks under the machine.
3. Ensure that the drive lever is in the ZERO position.
4. Ensure that the vibration switch is in the OFF position.
5. Push brake button (the parking break must be engaged).
6. Turn the ignition key to the ON position.
7. Check the following indicator lights on the combinations indicator and replace them if they do not shine:
   - Charging current indicator light
   - Engine oil pressure warning light
   - Parking brake light
   - ZERO position light
8. If engine is not at operating temperature set throttle control to full speed!



Note: *If the air temperature is less than 4°C, use cold–start spray agent as a starting aid.*

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Filling quantities

Fluids and lubricants . . . . . See page 51

Electrical system

Type of construction . . . . . 12 V–system with negative mass
Battery . . . . . (1) 12 V; 143 Ah

Engine

Manufacturer and model . . . . . CUMMINS B 3.3
Type . . . . . Four–cylinder, water–cooled, four–storke, diesel engine
Injection sequence 1–3–4–2
Bore x stroke . . . . . 95 x 115 mm
Capacity . . . . . 3260 cm^3
Diesel fuel . . . . . See page 50
Power DIN 6271 . . . . . 45 kW (60HP) at 2200 rpm

Engine speeds
Operating speed . . . . . 2200 rpm
Idling speed . . . . . 800 rpm

Weights

	VM46D	**VM46PD**
Operating axle load, front	2200	2500 kg
Operating axle load, rear (with tyre ballast)	2400	2400 kg
Operating weight, max.	4600	4900 kg

Speed

	VM46D	**VM46PD**
1 st gear, forward and reverse	0–5,8	0–5,8 km/h
2 nd gear, forward and reverse	0–12,7	0–7,9 km/h

Tyre pressure

	VM46D	**VM46PD**
Tyre size	12.0 R 20 XZL	12.4 – 24 DT
Tyre layers	6	6
Tyre profile	ALL–WEATHER profile	cleat tread profile PR–TSG
Tyre pressure	0,9 to 1,4 bar	0,9 to 1,4 bar

Vibration system

	VM46D	**VM46PD**
Frequency	1920 rpm (32Hz)	1920 rpm (32Hz)
Nominal amplitude	1,8 mm	1,5 mm
Centrifugal force	101,6 kN	101,6 kN

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19.0 RUNNING–IN PERIOD–MAINTENANCE SCHEDULE

During the run–in period, the following points must be observed in addition to the tasks in the maintenance schedule on the following pages.

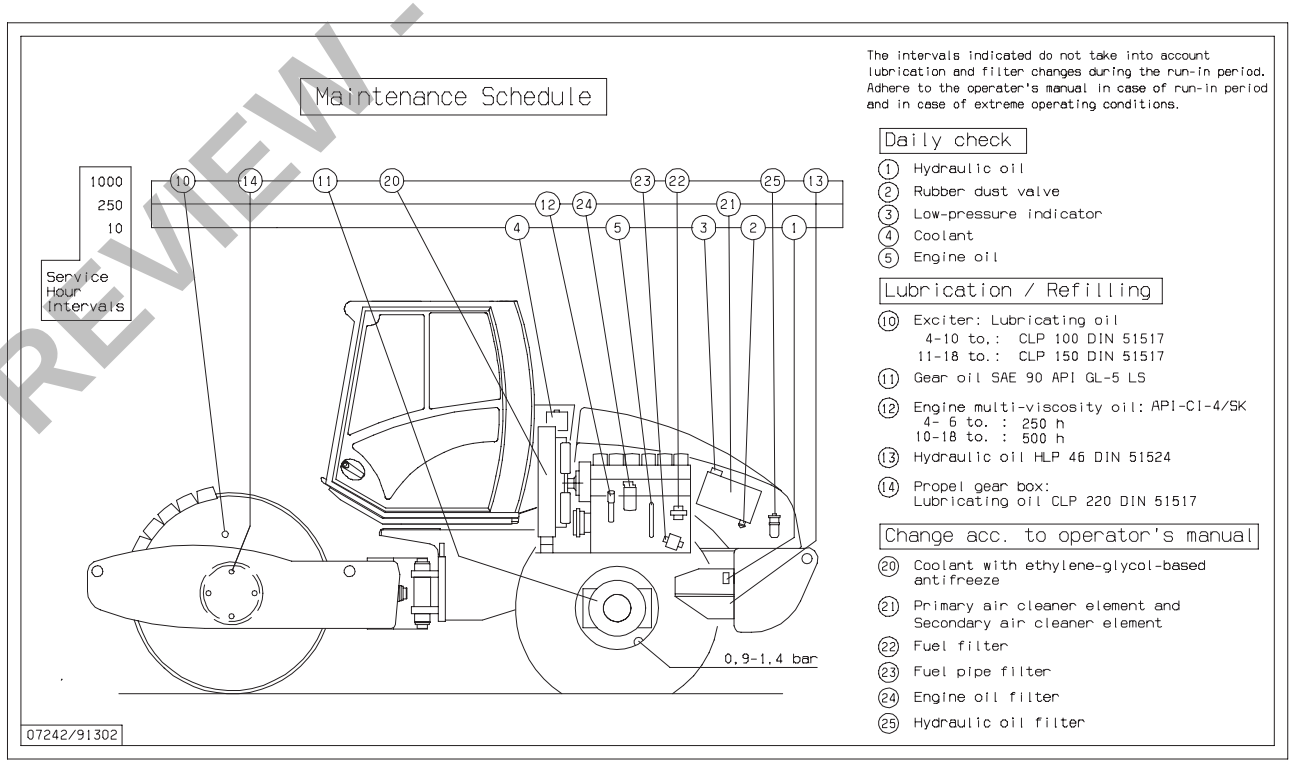
After the first 8 hours of operation

Check the tightness of the wheel nuts.

Warning: *If the equipment is raised or if the machine is operated without an authorized operator, injury or death can result. Before the machine is serviced, the following points must be observed:*

1. *Park the machine on level ground.*
2. *Support raised equipment (levelling blade if present) or lower it onto the ground.*
3. *Engage the parking brake.*
4. *Stop the engine.*
5. *Block the machine (wheels, drums etc.) in order to prevent the machine from moving unintentionally.*

Warning: *When performing adjustments or maintenance work on the machine, always follow the instructions in this instruction manual and the workshop manual. If the engine must be kept running, engage the aid of a second person. Do not leave the operator's area while the engine is running. If these instructions are not observed, injury can result.*



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