JCB VIBROMAX

TÜV CERT
DIN EN ISO 9001 : 2000
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VM 115 D / PD
VM 115 HD

Engine JCB 444

Vibratory Single Drum Roller

Instruction Manual

07232/28335

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5.0 BASIC SAFETY NOTES

WARNING NOTES AND SYMBOLS

In the instruction manual, the following designations or signs are used for especially important information:

Note: *Special information relating to economical use of the machine.*

Caution: *Special information or orders or bans for preventing damage.*

Danger: *Information or orders or bans for preventing personal injury or serious damage to property.*

BASICS; USE AS INTENDED

1. The machine is built according the state of the art and in accordance with the recognized safety rules. Nevertheless, its use can cause danger to life and limb of the user or third parties or damage to the machine and other material assets.

2. Use the machine only when it is in technically perfect condition. Use it in the manner for which it was intended. Be aware of safety measures and possible hazards. Always observe the instruction manual. In particular, immediately eliminate faults which could impair safety (or have them eliminated).

3. The machine is intended only for compacting beds of earthy building materials when running over the subgrade in the forward or reverse direction with or without vibration.

   These building materials include soil types ranging from stones to silty sand and having water contents ranging from 40% to 110% of the optimum water content according to the standard Proctor test as given in DIN 18127.

   Fine–grained soils or soils having higher water contents require a qualified trial compaction.

   The machine is intended to be used only on a subgrade gradient up to the permissible gradient.

   Definition of grade ability

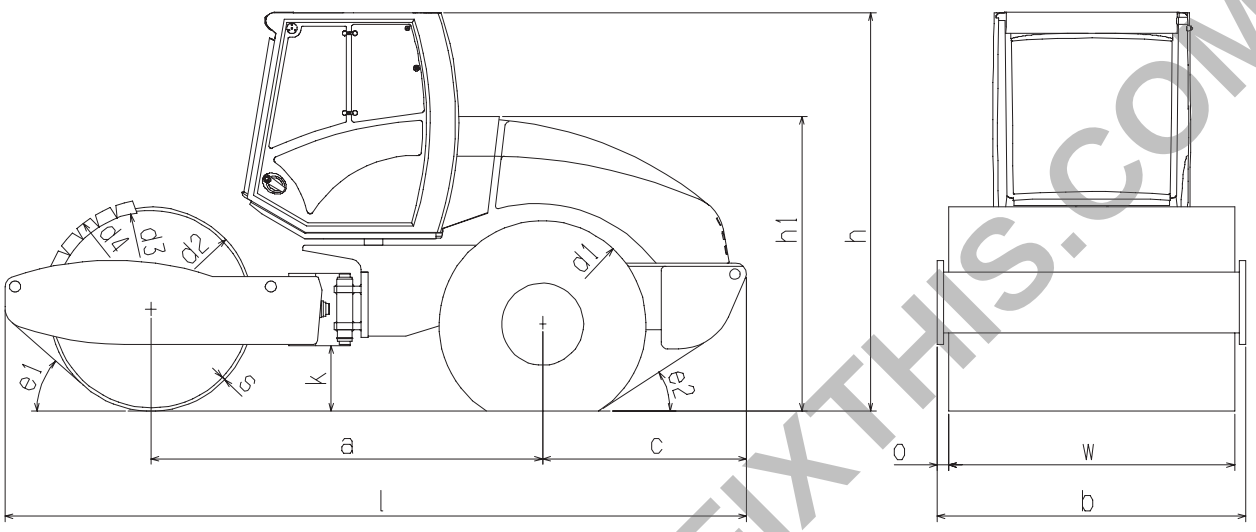
   The grade ability of a roller is the gradient angle of a firm, hard and level roadway on which a roller of the basic–equipment version with its longitudinal axis pointing in the incline direction can start in the forward and reverse directions by means of its own propulsion and then travel further for a short period.

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6.0 TECHNICAL DATA

Machine Dimensions



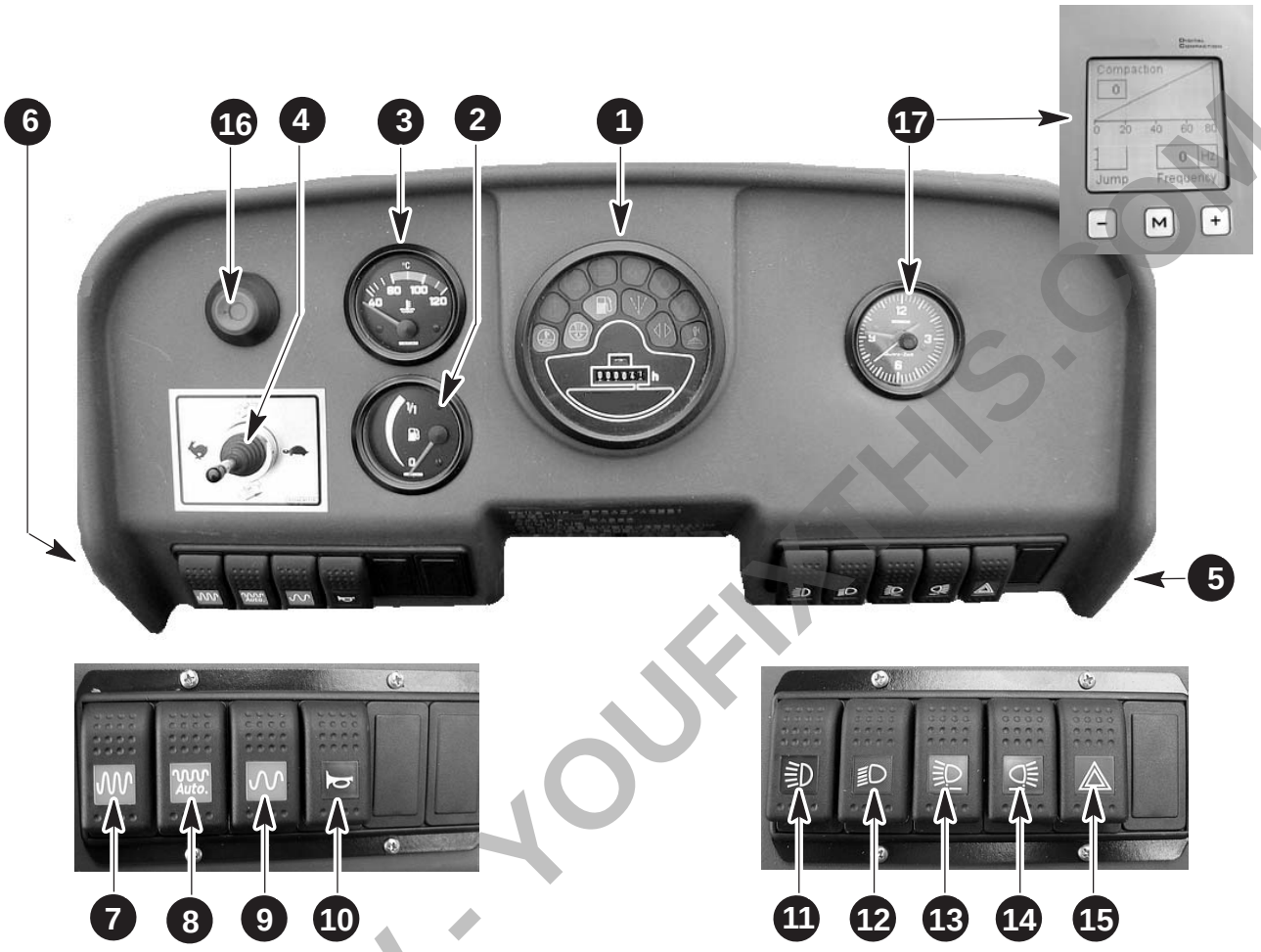
	VM115HD	VM115D/PD
a	2846 mm	2846 mm
b	2270 mm	2250 mm
c	1523 mm	1523 mm
d_1	1520 mm	1520 mm
d_2	1500 mm	1500 mm
d_3	1400 mm	1400 mm
d_4	1600 mm	1600 mm
h	2935 mm	2935 mm
h_1	2185 mm	2185 mm
k	447 mm	447 mm
l	5444 mm	5444 mm
o	75 mm	75 mm
s	25 mm	25 mm
w	2100 mm	2100 mm
e_1	41°	41°
e_2	32°	32°

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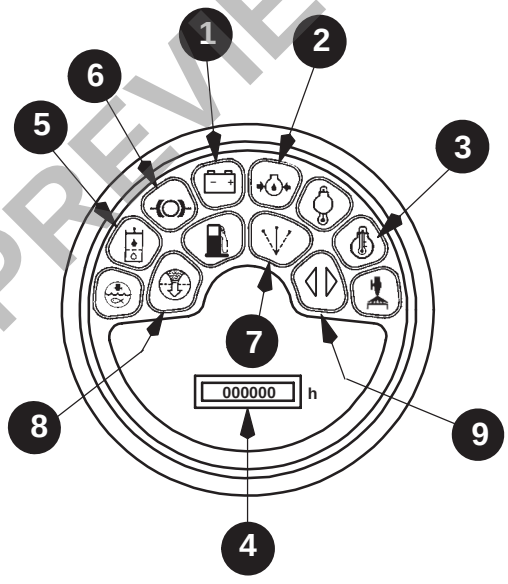
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9.0 OPERATOR'S STAND

Overview



1. Combination indicator



– 1. Charging current indicator light

This light comes on when the key is in the ON position or there is a fault in the charging current circuit. If this light comes on while the engine is running, stop the engine and repair the fault.

– 2. Engine oil pressure warning light

This light comes on when the key is in the ON position or when the engine oil pressure is too low. If this light comes on while the engine is running, stop the engine and repair the fault.

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14.0 MACHINE OPERATION

General instructions

General practical advice concerning this machine is given below. Ask a VIBROMAXdealer if you require additional information regarding specific problems or special applications.



Using vibration on hard, compaction–averse surface can cause heavy dama–ges and is not permitted!

Know the limits of the machine. Keep the machine under control at all times. Do not perform too many operations at once.

Always pay attention. Keep the work area clear of persons who are not entitled to be in the vicinity of the machine. Know the positions of authorized persons in the work area.

If the operator looses control of a machine, injury or death can result. The operator must decide if the weather and the soil conditions permit safe handling on a slope, a gradient or uneven ground. On a slope, a gradient or uneven ground, the machine may be driven only at a low speed.

If the machine starts to move without an operator, injury or death can result. Before leaving the operator's platform, actuate the parking brake and stop the engine. See PARKING THE MACHINE in the instruction manual.

When compacting a new road bed or a new road surface, drive on the filling material or the bituminous layer with the full width of the machine. The machine can tip over if it is not resting on the surface with its full width.

Operation on a gradient can be dangerous. Rain, snow, loose crushed rock, soft ground etc. change the soil conditions. The operator must judge whether the machine can be driven on a gradient or ramp. Thus, before driving on a gradient or ramp, inspect the work area and then drive at low speed, as the machine can otherwise go out of control and tip over.

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20.0 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.

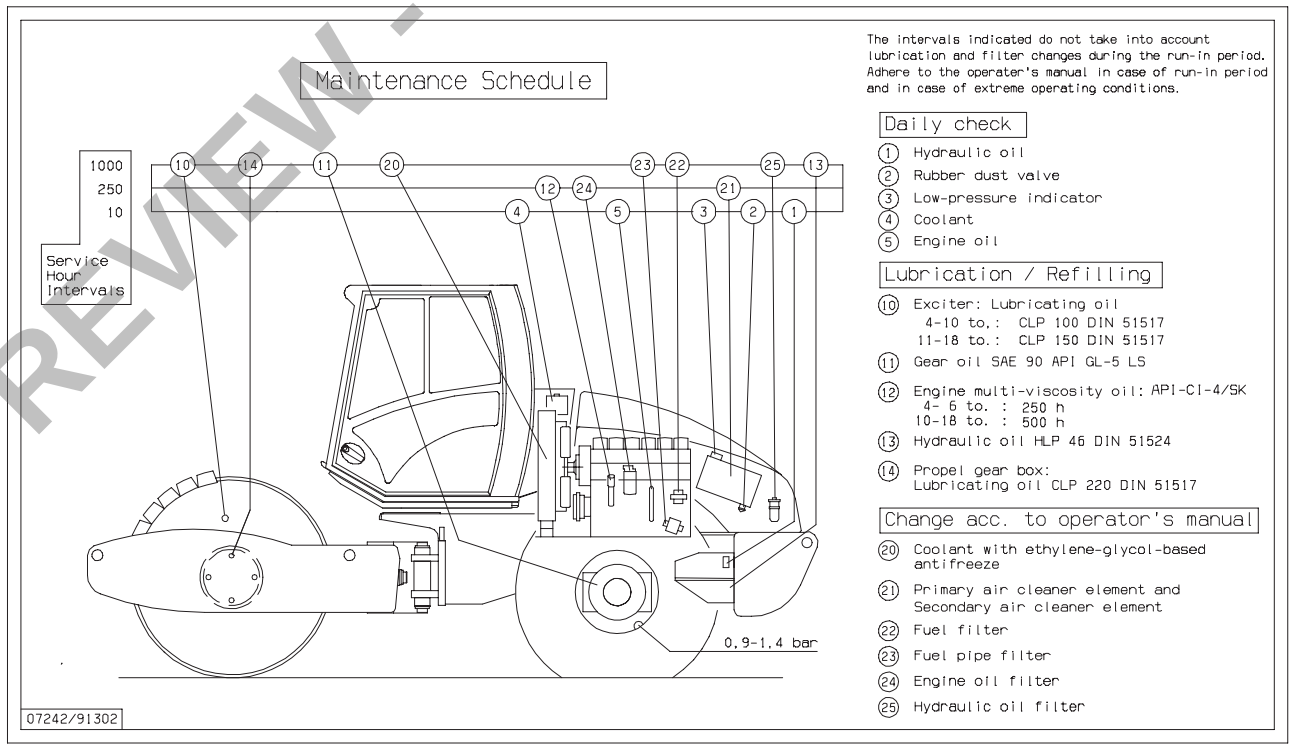
After the first 8 hours of operation

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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FLUIDS AND LUBRICANTS

Machine part	Capacity	Specification
Fuel tank	300 l	Diesel fuel . . . . . see pages 51
Crank case	15 l	Engine oil ACEA E2:B2:A2 API CF4/SG Multigrade engine oil: . . . . . SAE 15 W–40
Hydraulic system Reservoir	80 l 60 l	HLP 46 DIN 51524 Tropics . . . . . HLP 68 DIN 51524
Axle – DANA Intermediate gear Axle gear Hub gear Drum drive gear box	 2,0 l 9,5 l each 1,75 l 1,3 l	 SAE 90 API GL–5 LS Oil according CLP 220 DIN 51517
Axle – ZF Rear axle Drum drive gear box	 15 l 1,3 l	 SAE 90 API GL–5 LS Oil according CLP 220 DIN 51517
Vibration system	3,5 l	Oil according CLP 100 DIN 51517
Battery	As required	Distilled water
Lubricating nipple	As required	KP3K DIN 51502
Coolant	14 l	ASTM D3306; ASTM D4985; SAE JI034; B56580 (1992); AFNOR NF R15–601
Tyres		see page 19 and 20

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