TEN00113-01

Operation & Maintenance Manual

ARTICULATED
DUMP TRUCK

GALEO
HM400-1

SERIAL NUMBERS 1001 and up

WARNING

Unsafe use of this machine may cause serious injury or death. Operators and maintenance personnel must read this manual before operating or maintaining this machine. This manual should be kept near the machine for reference and periodically reviewed by all personnel who will come into contact with it.

NOTICE

Komatsu has Operation & Maintenance Manuals written in some other languages. If a foreign language manual is necessary, contact your local distributor for availability.

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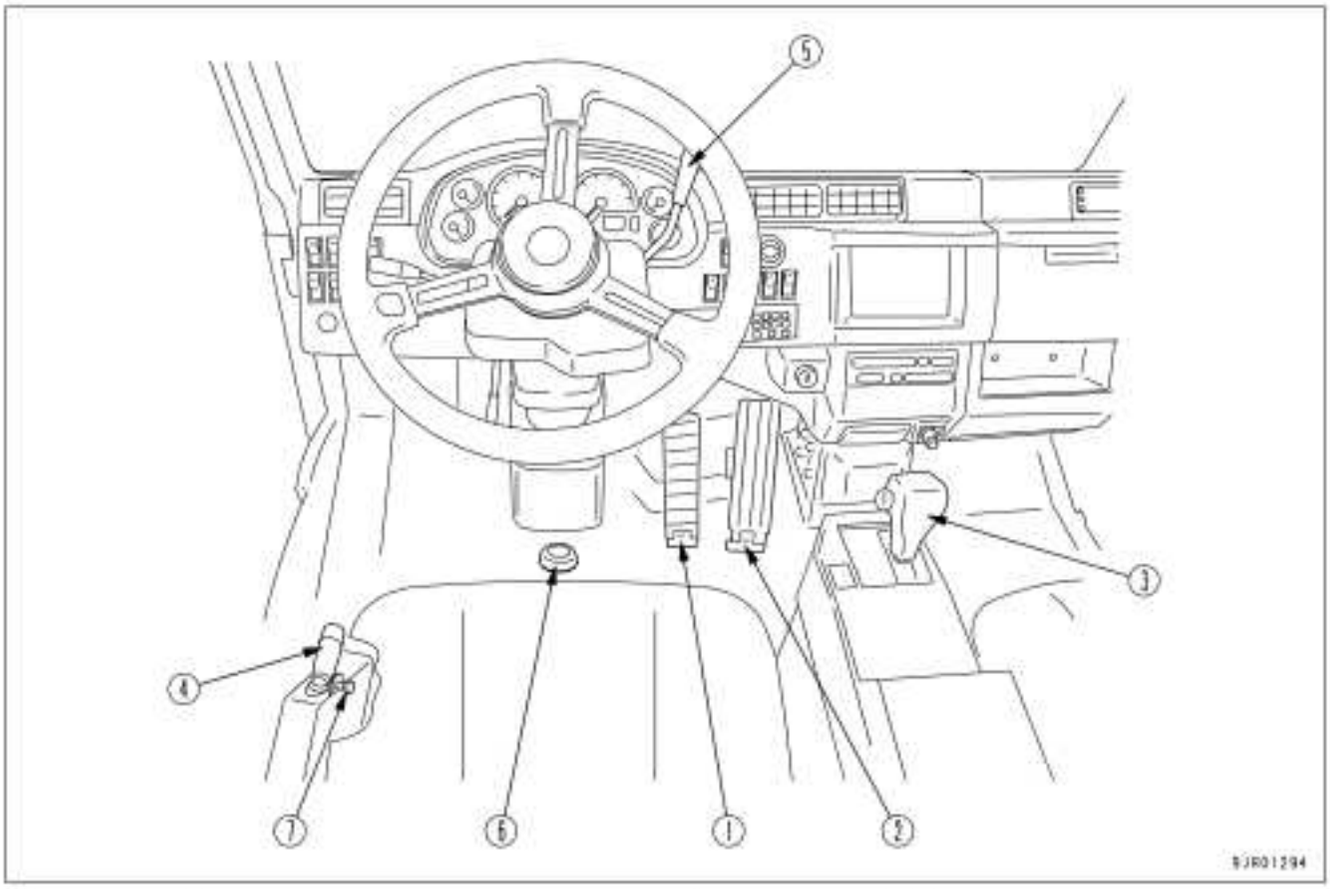
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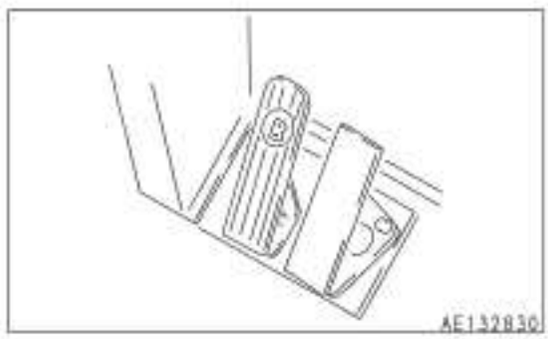
CONTROL LEVERS AND PEDALS



(1) Brake pedal
(2) Accelerator pedal
(3) Gear shift lever
(4) Dump lever
(5) Retarder control lever
(6) Left and right differential lock pedal
(7) Dump lever lock knob

BRAKE PEDAL

This pedal (1) is used to apply the wheel brakes.



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METHOD OF LIFTING MACHINE

When lifting the machine at a port or any other place, always use the following procedure to lift it.

⚠ WARNING

- **The operator carrying out the lifting operation using a crane must be a properly qualified crane operator.**
- **Never raise the machine with any worker on it.**
- **Always make sure that the wire rope is of ample strength for the weight of this machine.**
- **When lifting, keep the machine horizontal.**
- **Before starting the lifting operation, always stop the engine, apply the parking brake, and use the articulation lock to prevent the front frame from articulating.**
- **Never enter the area around or under the machine when it is raised.**

Never try to lift the machine in any posture other than the posture given in the procedure below or using lifting equipment other than in the procedure below.
There is a hazard that the machine may lose its balance.

NOTICE
This method of lifting applies to the standard specification machine.
The method of lifting differs according to the attachments and options installed.
For details of the procedure for machines that are not the standard specification, please consult your Komatsu distributor.

For the weight of the standard specification machine, see "WEIGHT TABLE (PAGE 3-118)".

NOTICE
- **Use protectors to prevent the wire rope from being cut on sharp corners and to prevent the wire rope from cutting into the machine bodywork.**
- **When using a spreader bar, select an ample width to prevent contact with the machine.**

Please consult your Komatsu distributor before carrying out lifting work.

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EVERY 500 HOURS SERVICE

Maintenance for every 50 and 250 hours service should be carried out at the same time.

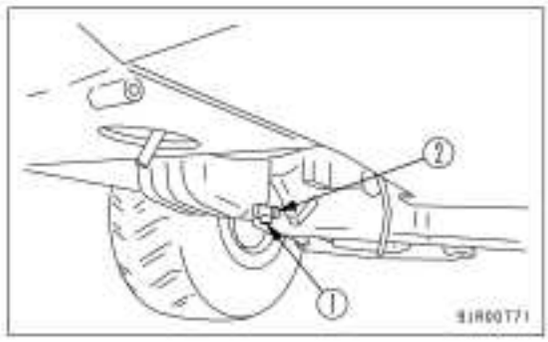
CHANGE OIL IN ENGINE OIL PAN, REPLACE ENGINE OIL FILTER CARTRIDGE

⚠ WARNING

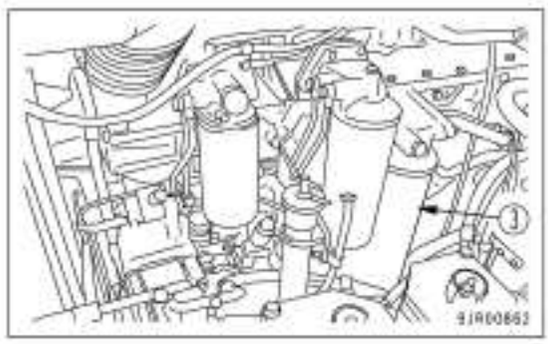
The parts and oil is at high temperature after the engine has been operated, and it can result in a burn. Wait for the oil to cool down before changing it.

- Refill capacity: 52 liters (13.74 US gal)
- Prepare a filter wrench

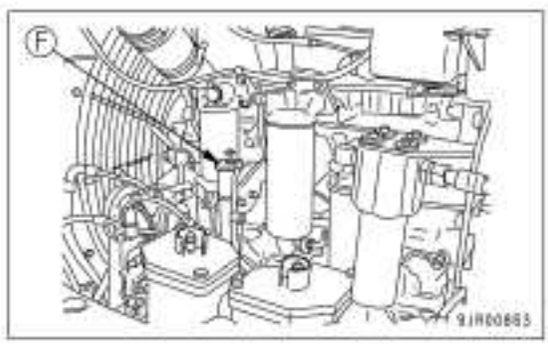
1. Set a container to catch the oil immediately under the drain valve under the chassis.
2. Remove drain plug (1), then loosen drain valve (2) slowly to avoid getting oil on yourself, and drain the oil. Be careful not to loosen the drain valve too far and deform the stopper pin inside the valve.



3. Check the drained oil, and if there are excessive metal particles or foreign material, please contact your Komatsu distributor.
4. Tighten drain valve (2) and drain plug (1).
   Tighten torque
   Drain plug (1), drain plug (2): 68.6 ± 9.8 Nm
   (7 ± 1 kgm , 50.6 ± 7.2 lbft)
5. Using the filter wrench, turn filter cartridge (3) to the left to remove it.
   When doing this, to prevent getting oil on yourself, do not carry out this operation from immediately under the cartridge.
   In particular, if this operation is carried out immediately after stopping the engine, a large amount of oil will come out, so wait for 10 minutes before starting the operation.



6. Clean the filter holder, fill the new filter cartridge with engine oil, coat the packing face and thread with engine oil (or coat thinly with grease), then install the filter cartridge.
7. Install the filter cartridge. When doing this, be careful not to damage the outside cylinder of the cartridge.
   When installing the filter cartridge, tighten until the packing face is in contact with the filter holder, then tighten a further 3/4 to 1 turn.
8. Add engine oil through oil filler (F) to fill to the specified level.
9. Run the engine for a short time at idle, then check the oil if it is filled up to a specified level. For details, see "CHECK OIL LEVEL IN ENGINE OIL PAN, ADD OIL (PAGE 3-75)".



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