TEN00138-08

Operation & Maintenance Manual

DUMP TRUCK

HD465-7E0
HD605-7E0

SERIAL NUMBERS

HD465-10001-10037
HD465- 10101 and up
HD605- 8001 - 8032
HD605- 10101 and up

ecot3

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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OPERATIONS, CHECKS AFTER STARTING ENGINE

WARMING-UP OPERATION

NOTICE

- **Avoid accelerating the engine suddenly before the warming-up operation is completed.**
  Do not run the engine for more than 20 minutes at low idling or high idling.
  If it is necessary to idle the engine, apply a load from time to time or run at a mid-range speed.
- **On machines equipped with auto emergency steering, if the machine is not fully warmed up, the emergency steering may be actuated momentarily when the parking brake switch is set to TRAVEL or the dump control lever is operated.**

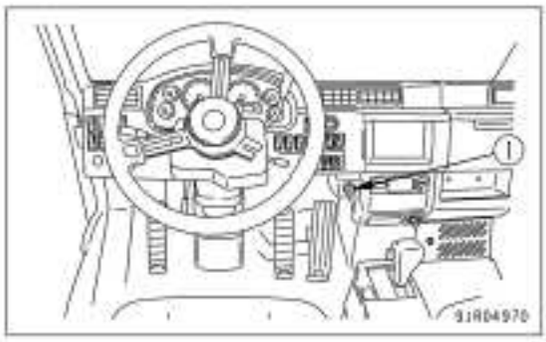
After the engine starts, do not start operating the machine immediately. First, carry out the following operations and checks.

1. After starting the engine, run the engine at low idle for 5 minutes for warming up operation.
2. After the warming-up operation, check that the machine monitor is normal.
   If there is any problem, carry out maintenance or repair.
   When the AISS LOW switch is at the AUTO position and the engine water temperature is still low, high idle revolution is automatically maintained.
3. Check if there is no problem in the steering operation, flashing of lights, sound of horn, exhaust gas color, noise, or vibration. If any problem is found, repair it.
   Immediately after the engine is started, if the steering oil temperature is low, the steering will be slightly heavy, so avoid traveling at high speed.
   If there are any problems, please ask your Komatsu distributor to carry out adjustment and repairs.

STOPPING ENGINE

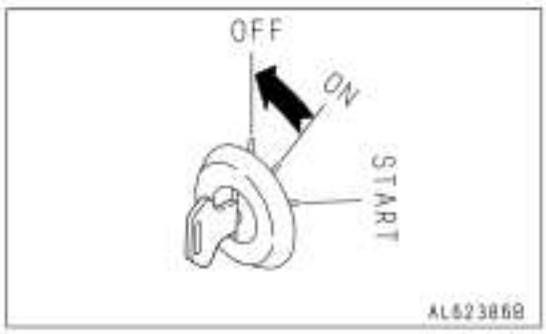
NOTICE

Except when stopping in emergencies, run the engine at low idle to cool it down gradually after operations. If the engine is stopped without allowing it to cool down, the turbocharger is still rotating under inertia, so there will be lack of lubricating oil and this will reduce the service life of the machine.



REMARK

If the engine overheats, "E02 ENGINE OVERHEAT" is displayed on the character display and the engine output is automatically limited. Run the engine under no load at a mid-range speed until the lamp goes out.



1. Set the shift lever to the N position, then set the parking brake switch to the PARKING position.
2. Lower the dump body and set the dump lever to the HOLD position.
3. Run the engine at low idle for about 5 minutes to cool down gradually.
4. Turn the key of starting switch (1) to the OFF position to stop the engine.
5. Remove the key from starting switch (1).

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CHECK BRAKING CAPACITY OF RETARDER BRAKE

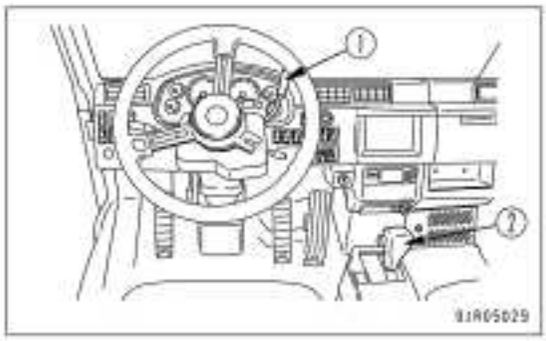
⚠ WARNING

When checking the braking capacity of the retarder brake, there is danger that the machine may suddenly move and be damaged or cause serious personal injury. Always do the following.

- **Select a wide, flat area with sufficient distance to make it possible to stop the machine if it suddenly moves.**
- **If the machine suddenly moves when the braking capacity of the retarder brake is being checked, reduce the engine speed immediately, move the gear shift lever to the N position, and depress the foot brake to stop the machine.**
- **If inspection is carried out when the dump body pilot lamp is lighted up and the shift indicator is at F1, there is danger of damage to the internal parts of the transmission.**
  When carrying out inspection, seat the dump body securely and check that the body pilot lamp has gone out. In addition, set the gear shift lever to the "D" position and check that the shift indicator shows F2.

Check the braking capacity of the retarder brake as follows.

1. Stop the machine on flat ground and pull retarder control lever (1) fully.
2. Set shift lever (2) to the D position, gradually raise the engine speed, and check that the machine does not move even when the engine speed reaches 1400rpm. If the machine does not move, it is normal.
3. Lower the engine speed, set gear shift lever at N position. If any problem is found, ask your Komatsu distributor for repair.



NOTICE

If the dump body is not seated and the parking brake is at "TRAVEL", the speed range is set to F1, even when the gear shift lever is at the "D" position.

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EVERY 2000 HOURS SERVICE

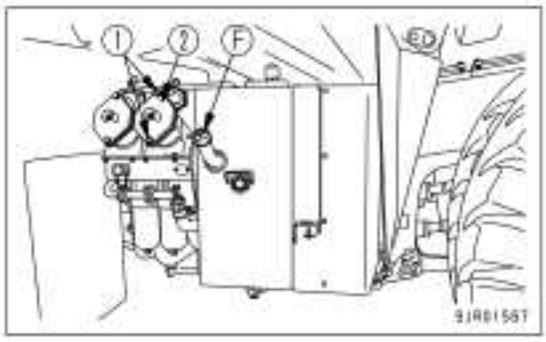
Carry out maintenance for EVERY 250 HOURS, EVERY 500 HOURS and EVERY 1000 HOURS SERVICE at the same time.

REPLACE STEERING, HOIST OIL TANK FILTER ELEMENT

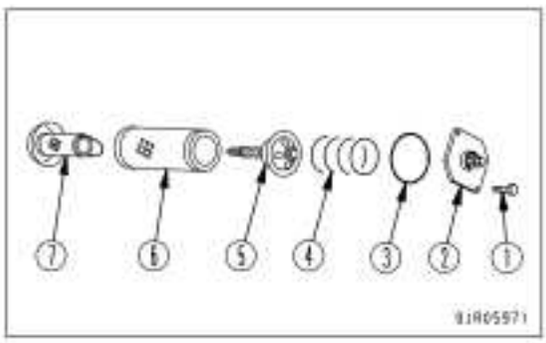
⚠ WARNING

- **Immediately after the engine is stopped, the parts and oil are at high temperature, and there is danger that this may cause burns during the oil level check operation. Wait for the temperature to go down before starting the operation.**
- **When loosening the cap, do not loosen it suddenly. Loosen it gradually. The inside of the case is under high pressure, so if the cap is loosened suddenly, oil may spurt out and cause burns.**

1. Stop the engine.
2. Turn the cap of oil filler (F) slowly to release the internal pressure, then remove the cap.
3. Remove bolt (1), then remove cover (2).



4. Remove O-ring (3), spring (4), valve (5), element (6), and the strainer (7), then wash the inside of the case and of the valve and strainer.
5. Prepare a new element, then install the strainer, element, valve, and spring.
6. Coat the O-ring thinly with clean oil, then install it.
7. Install cover (2) with bolts (1).



If the filter Maintenance caution lamp (if equipped) lights up when the engine water temperature gauge is in the white range and the engine is running at 1200 to 2100 rpm, replace the element immediately.

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