

Running-in period

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1. Running-in operation

Each new dump truck requires careful operation the first 100 hours (refer to hour metre) to break in (run-in) all moving parts.

Follow instructions below during this period:

1. Start engine as described in "Operating Instructions" (chapter 5). Run engine at low idle speed until pressure in the various circuits is normal (i.e. brake system warning light switched off, also see page 3-11).
2. Warm up by operating the dump truck at low load and reduced rpm until all gauges show normal range. Extend the warming up period in the winter (cold season).
3. During operation do not drive with constant high engine rpm and load, avoid heavy-duty work and high speed travelling.
4. Drive carefully and avoid sudden starts and stops, abrupt acceleration and turns.
5. Carefully perform the running-in services, see next page.

Take special care for the following points:

- A warming up period until display screen shows normal range is important - also after the dump truck has been run in.
- Operating up to the limit of the dump truck's capacity during the running-in period, may prematurely reduce the performance potential.

2. Running-in services

Running-in service is to be carried out after operating the dump truck the first 8, 100 and 500 hours. These services are most important for running in a new dump truck. This is the owner's responsibility.

2.1 First 8 hours:

1. Wheel nuts: Check tightening of nuts
• Torque setting: 650 Nm. Spanner: 32 mm
2. Lubricating: Grease all lubricating points
3. Battery
4. Multi-groove belt: Checking multi-groove belt condition, see 1000 hours service item 2.4.
5. Carry on with the normal 8 hours service, listed in chapter 7 maintenance.
Since these points are important for the dump truck to work satisfactorily right from the start they are also listed below.

All items below refer to 8 hours/daily service in chapter 7.

1. General
 - Walk around check, before start item 1.1.
 - Check driver's seat, before start item 1.2.
2. Engine
 - General condition check - look for leaks and repair as necessary item 2.1.
 - Drain the water separating fuel filter 6* item 2.2.
 - Check oil level, before start 1* item 2.3.
 - Check coolant level, before start 5* item 2.4.

Coolant should be filled up when the engine is stopped after first stop.
It is recommended to fill up with the same mixture as filled from the producer -
40% glycol / 60% demineralized water, see also 2000 hours service, item 1.3 check the coolant.

 - Check fuel and urea tank (if fitted) level, before start 12*, 13* item 2.5. and 2.7
 - Function check of the centrifugal cleaner, after operation 2* item 2.6.
3. Transmission
 - Check oil level, before operation 20* item 3.1.
4. Hydraulic system
 - Check oil level 40*, cooling brake tank 34* item 4.1.
5. Brake system
 - Parking brake, check braking (holding) capacity, before operation item 5.1.
 - Service brake, check braking (holding) capacity, before operation item 5.2.
 - Service brake, check function, before operation item 5.3.
 - Accumulators, check the oil pressure, before operation item 5.4.
6. Steering
 - Check function, before operation item 6.1.
7. Retarder brake (Main brake)
 - Check function, before operation item 7.1.

2.2 First 100 hours:

1. Replace transmission oil filter 21* item 1.1.
2. Run the Transmission Clutch Calibration (AEB) item 1.2.
3. Replace hydraulic oil filter 42* item 2.1.
4. Rear differential change oil 31* item 3.1.
5. Tandem housing, rear planetary drive (hubs) change oil 32*,33* item 3.2.
6. Planetary drive front (hubs) change oil 33* item 3.3.
7. Multi-groove belt: Checking multi-groove belt condition, see 1000 hours service item 2.4.
8. Expander bolts: Checking torque setting on expander bolts on tip- and steering cylinders, see 500 hours service item 5.1.
9. Re-torque window wiper spindle nuts.
• Torque setting: 25 Nm (M8)

* Numbers refers to position on lubrication schedule, chapter 6

2.3 First 500 hours:

1. Change oil in:

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|------------------------|-----|-------------------------------|-----------|
| • Front differential | 30* | See initial 500 hours service | item 1.1. |
| • Brake cooling tank | 34* | See initial 500 hours service | item 3.1. |
| • Brake cooling filter | 35* | See initial 500 hours service | item 3.1. |

2. Check/adjust:

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| • Valve clearance | | See initial 500 hours service | item 9.1. |
| • Adjusting the unit injector | | See initial 500 hours service | item 9.2. |
| • Hydraulic oil pressure | | Contact your local Hyundai Dealer | |

3. Carry on with the normal 500 hours service, listed in chapter 7 maintenance:

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| • Change oil, engine | item 1.1. |
| • Check Air filter outer element , engine | item 1.5. |
| • Clean centrifugal cleaner | item 1.2. |
| • Replace oil filter | item 1.3. |
| • External cleaning of the radiator | item 1.4. |
| • Check oil levels | item 2.1. |
| • Check brake lining thickness | item 3.1. |
| • Check wheel nuts torque | item 4.1. |
| • Check expander bolts, tip- and steering cyl. | item 5.1. |
| • Air conditioner system, test operation | item 6.1. |
| • Check cab ventilation filter element | item 6.2. |
| • Check the automatic central lubrication system | item 7.1. |

See chapter 7 for procedures and chapter 6 for fluid specifications.

