

Attention of vehicle maintenance

**Pay attention to the content of inspection before and after leaving the vehicle every day:**

- 1) Check the hydraulic oil quantity of dump truck, if there is any shortage, check whether the hydraulic system is damaged or not or leaked or not, if there is, deal with it in time.
- 2) Pay attention to the connection and fastening between the upper and lower support of hydraulic cylinder, connecting rod mechanism and other parts of the dump truck status. Observe whether the moving parts and their adjacent fixed parts have abnormal damage or not or deformation or not.
- 3) Check the intact condition of the dump truck carriage and sub-frame, especially pay attention to the open welding, crack and other phenomenon.
- 4) Check the working or wear condition of moving parts such as dump truck gear pump, PTO and hydraulic cylinder, and carry out maintenance, repair and replacement of vulnerable parts.

**The following items should be inspected regularly after each week or every 50 working hours:**

Check whether there is leakage in all gas and oil routes of the dump truck or not. If there is, replace the damaged hose in time. Check whether all bolts and nuts are loose or not. If they are, tighten them in time to check the valve and hydraulic cylinder on the vehicle status. If they are, clean them. Each filling point must be filled with grease gun to ensure the normal operation of the vehicle. Check the condition of pad wood, rubber pad block or rubber pad belt, if there is aging it must be replaced in time.

- 1) Dump truck high pressure hose must be replaced every two years, if it been found out that the hose crack damage or local expansion, it should be replaced in time.
- 2) It is necessary to check whether there is air leakage and oil leakage in the tipping mechanism of dump truck or not. When filling with hydraulic oil, check whether the filter screen installed at the refueling port is damaged or not, and replace it if necessary. By doing this to avoid impurities and accelerate the wear and tear of hydraulic components or early damage. It is strictly prohibited to mix different brands of hydraulic oil and add hydraulic oil that does not meet the requirements of the manual.

- 3) One Should often check whether the dump truck PTO, gear pump meshing and separation is normal or not to avoid incomplete separation caused by lifting the container accidentally. Under the working conditions, drivers also should pay attention to whether the vehicle has abnormal sound or not or temperature too high. If necessary, remove it in time to avoid the PTO, gear pump, valve and other premature damage.
- 4) When the dump truck is overhauling, check the working face of the piston rod of the hydraulic cylinder to check if there is any bruising, scratching, etc., or not. if there is, repair it or make replacement in time, otherwise the hydraulic cylinder performance will decline significantly.
- 5) Check whether the locking mechanism of the rear plate of container is reliable or not Frequently, and adjust it to a reasonable automatic opening and closing angle to prevent the rear plate of container locking mechanism from accidentally opening or failing to open when lifting. When unloading large blocks of material, the rear plate of container should be removed to avoid damaging of the rear plate of container.
- 6) When the dump truck is overhauling , cleaning is advised to prevent sundries into the hydraulic system and avoid the occurrence of wear components, plug valves and other conditions resulting in performance degradation.
- 7) If the dump truck is out of use for a long time, it should be checked according to the inspection content of the new vehicle before reusing, then can it be used again after passing the inspection.
- 8) Check whether the connection between the chassis girder and the sub-frame is reliable or not Frequently , whether the U-bolt and shear iron are loose or not, whether the pad, rubber pad or rubber pad block is fixed firmly or not, if there is loose and dislocation, it must be tightened and reset.
- 9) Hydraulic oil must be kept clean and replaced regularly. Before the hydraulic oil is injected into the oil tank, it should go through 48 hours of precipitation. The filtration accuracy of hydraulic oil is  $<25\mu\text{m}$ . The oil tank should be cleaned regularly to remove sediment. The hydraulic oil should be replaced regularly according to the deterioration condition, but the longest replacement period is one year.
- 10) Lubricating grease shall be regularly added to the lubrication points of each transfer part of the vehicle. The label number of the grease shall be strictly executed in accordance with the manufacturer's instructions.

### **Maintenance cycle of main assembly parts**

- 1) Engine maintenance cycle: First Maintenance time is 250 Working hours since the dump trucks been delivered on site, regular maintenance cycle every 500 hours.
- 2) Transmission maintenance cycle: First Maintenance time is 5000 KM since the dump trucks been delivered on site, regular maintenance cycle every 10,000 KM
- 3) Maintenance cycle of axle and balance axle: First Maintenance time is 4000 KM since the dump trucks been delivered on site, regular maintenance cycle every 5,000 KM
- 4) Hydraulic oil maintenance cycle: 6 months.
- 5) The vehicle must be lubricated each week.