

油润滑车轴轴端润滑系统维护、保养说明

一. 维护、保养说明

- ① 油润滑车轴正常使用每年或行驶100000公里后须更换润滑油，以先到者为准。
- ② 定期观察润滑油颜色，出现明显异常时须更换润滑油。
- ③ 润滑油要求采用粘度等级在80W/90的齿轮油GL-5，推荐使用永力泰专用润滑油或美孚黑霸王齿轮油（HD80W-90），每个轴端用量约0.75L。**禁止不同品牌的润滑油混用！**
- ④ 用户每次拆装轮毂时，必须更换新的轮毂密封圈，以获得更安全的密封性能。
- ⑤ **注意更换或加注润滑油时必须保持加油器具油嘴及其周围部位的清洁；轮毂内腔以及轮毂端盖内腔必须清洁干净，不允许有金属碎屑等残留物。**

二. 工具准备

端盖扳手×1；8#内六角扳手×1；10#内六角扳手×1 普通扳手或扭力扳手×1。

三. 润滑油更换步骤

- ① 拧开轮毂放油口堵头放油（图1所示）。



图1

- ② 顺序拆开端盖、轴头螺母、轮毂、内外轴承及油封等轴端零件。
- ③ 清洁轮毂内腔、端盖内腔、轴承及密封件。
- ④ 检查轴承磨损情况，若失效请及时更换。
- ⑤ 顺序装回轴端零件，安装放油孔堵塞前在螺纹处涂抹适量螺纹密封胶，堵塞拧紧力矩100~130N·m。
- ⑥ 拧开端盖上注油孔螺栓，倒入润滑油至注油面处于轴头盖透明窗口“ADD线”与“FULL线”之间，不得超过“FULL线”最低点（图2、图3所示）。



图2

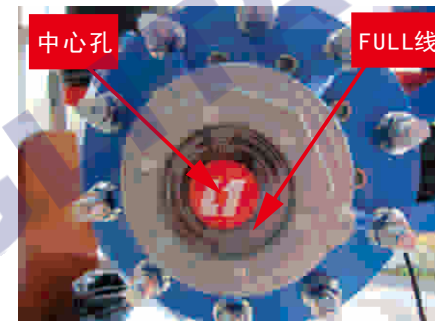


图3

- ⑦ 装回并拧紧注油口堵头，装配时在螺纹处涂抹螺纹密封胶。
- ⑧ 安装好后，旋转轮毂5~10圈，从透明面板处观察润滑油是否正常，不允许有浑浊、变色等异常现象。

四. 保养项目及周期

○润滑	初次使用	每半个月	每个月	每三个月	每六个月	每年或行驶10万公里
检查润滑油是否足够	○		○			
检查端盖红色橡胶塞中心放气孔是否脏污堵塞（适用于外排气）		○				
检查润滑油是否有变色等异常				○		
定期更换轮毂轴承润滑油						○

注：

- ① 轴端润滑油液面接近“ADD线”时，需及时补充同品牌同规格润滑油，以保证得到最佳的润滑效果，按润滑油更滑步骤⑥~⑦项执行。
- ② 加油或换油时，油面处于“ADD线”与“FULL线”之间可获得最佳润滑效果，油量过多或过少均可能引起轴端发热或其他异常情况。
- ③ 此份说明适用于油润滑车轴轴端润滑系统，其余维护保养项目参照《车轴使用保养手册》执行。

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Maintenance Instruction of Oil-Lubricated System

I. Application notice of Oil lubrication axle

- Lubricating oil shall be changed every year or after 100,000 km of normal operation, whichever occurs first.
- The color of oil shall be observed regularly. When a significant abnormality occurs, lubricating oil must be changed.
- GL-5 gear oil with viscosity grade of 80W / 90 is required. Yonglitai Special Lubricating oil or Mobil Hexagon Gear Oil (HD 80W-90) is recommended. Oil consumption of each axle end is about 0.75L. Mixing up different brands of lubricating oil is not allowed!
- In order to obtain a safer sealing performance, hub seal shall be changed every time when the hub is dismantled.
- Oil nozzle and its surrounding parts must be clean when changing or filling lubricating oil. Inner cavity of hub and hub cap must be clean. Metal residue and other residues are not allowed.

II. Tool preparation

Hub wrench × 1; 8# Hex wrench × 1; 10# Hex wrench × 1; Ordinary wrench or torque wrench × 1.

III. Processing steps

- HoleUnscrew the oil drain hole of hub to discharge the oil; (Figure 1).

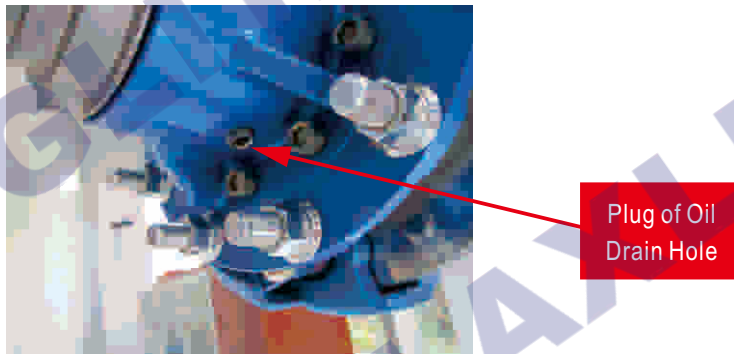


Figure 1

- Disassembly the hub cap, axle end nuts, wheel hub, outer bearing, inner bearing, oil seal and other parts of the axle end.
- Clean the inner cavity hub, inner cavity of hub cap, bearings and seal.
- Check the wear condition of bearing. Baring shall be replaced when it loses its efficacy.
- Reassemble all the parts of the axle end. Apply appropriate sealant to the thread before mounting the plug into the oil drain hole. The tightening torque of the plug shall be 100 ~ 130N m.
- Unscrew the oil filler hole bolts of hub cap; fill in the lubricating oil until it reaches between the "ADD line" and the "FULL line" of the transparent panel. The lubricating oil shall not exceed the lowest point of the "FULL line" (Figure 2, Figure 3).



Figure 2

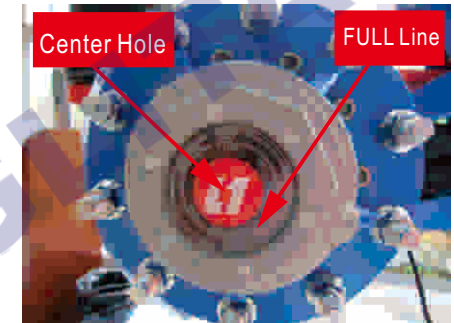


Figure 3

- Apply appropriate sealant to the thread, mount and screw the plug back into the oil drain hole.
- After reassembling, rotate the hub 5 ~ 10 laps, observe the lubricating oil from the transparent panel. Turbidity, discoloration and other abnormalities are not allowed.

IV. Maintenance cycle

○ Lubricate	First use	Every half a month	Every month	Every three months	Every six months	Every year or 100000 km
Check the lubricating oil, whether it is enough.	○		○			
Check the center air-bleed hole of the rubber plug, whether it is dirty and blocked.		○				
Check the lubricating oil, whether it is discolored.				○		
Regularly Change the lubricating oil of the hub and bearing.						○

Note:

- In order to obtain the best lubricating effect, lubricating oil shall be added when the oil level reaches the "ADD line". Mixing up different brands of lubricating oil is not allowed. See the lubricating step 6 ~ 7.
- in between the "ADD line" and the "FULL line", the best lubricating effect can be obtained. Too little or too much may cause heating problem of the axle end or other abnormalities.
- this maintenance Instruction is applicable to the Oil-Lubricated System. For other maintenance projects please refer to the Axle Using and Maintenance Manual.

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