GUIDELINES FOR LUBRICATION PROCEDURES

Following procedures are provided as guidelines for build up complete relubrication procedures protocols. Additional information on safety procedures, identification of machines, references of tools and lubricants are supposed to be private information of every customer.

For additional information on these procedures, other “Best practices guidelines” or SKF Lubrication Products, contact your local SKF representative or visit

- www.mapro.skf.com or
- www.skf.com/lubrication

Procedures included in these guidelines:

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1. **Grease Relubrication Procedures.**

When relubricating a bearing using grease, the following guidelines are suggested:

**Tools required:** SKF offers a comprehensive portfolio of tools that helps to ensure a clean and safe relubrication procedure

- Grease guns: TLGH 1, 1077600, LAGP 400, LAGH 400
- Battery driven grease gun: LAGG 400B
- Grease filling pumps: LAGF series
- Pneumatic grease guns: LAGG Series
- Grease meter: LAGM 1000E
- Lubrication accessory sets: LAGS 8, LAGN 120
- Bearing packer: VKN 550
- Disposable grease resistant gloves TMGA G11D
- SKF Grease fitting caps and tags TLAC 50.
- Clean lint-free clothes
- Mechanical tools to remove grease fittings, drainage plugs, and so on.
- Cleaning agent
- Spatula (if a grease change is required)
- Safety equipment

**Procedure:** Take the following guidelines into consideration when designing your procedures

- **For grease Replenishment:**

  First at all take into consideration the following advices:

  - Check the safety procedures before any performing any task.
  - Replenishing while the machine is in operation is advised. However if a safety procedure indicates to stop the machinery try to rotate the bearing during replenishment.
  - Use a dedicated grease pump for every type of grease
  - Take care of properly filling lubrication ducts, and verifying they’re not obstructed
  - For additional information on lubrication procedures:
    - Consult Lubrication section at "Principles bearing selection and application” chapter of the SKF General Catalogue
    - Consult the lubrication chapter of the SKF Maintenance Handbook at www.aptitudeexchange.com
    - or consult your local SKF representative

When performing the tasks, following steps should be included:
• Clean the area surrounding the lubrication point
• Open the fitting cap. If no cap, clean the fitting thoroughly and make sure to have a cap (SKF TLAC 50) to install it afterwards
• Verify that the grease pump contains the correct grease
• Check if the grease can be adequately pumped at the prevailing ambient temperature when long lubrication ducts are used
• Connect the grease pump to the grease fitting
• Pump the amount of lubricant stipulated in the lubrication routine. The SKF grease meter LAGM 1000E allows an accurate measurement.
• Disconnect the pump
• Clean the area surrounding the lubrication point
• Close the fitting cap.
• Mark the task as completed in your lubrication routine

• **Manual renewal of the grease fill:**

  • Stop the machine according to safety and production guidelines
  • Clean the area surrounding the bearing housing
  • Open the bearing housing
  • Remove all old grease with the spatula, dry cloths and cleaning agents
  • Using the pump, fill the empty space in the bearing according with lubrication routine
  • Using the pump, fill the bearing housing according with lubrication routine¹
  • Close the housing and tighten the bolts according with manufacturer’s instructions ²
  • Clean the area surrounding the bearing housing
  • Mark the task as completed in your lubrication routine

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¹ Usually the bearing is completely filled with grease and the free space in the housing filled to between 30 and 50%. If operating speeds are slow, the housing may also be completely filled as this enhances protection against corrosion and contaminants.

² For additional information on mounting procedures visit [www.skf.com/mount](http://www.skf.com/mount)
2. **Installation, Inspection Or Change Of Single Point Automatic Lubricators.**

When installing, inspecting or changing a single point lubricator, following guidelines are suggested:

**Tools required:** SKF offers a comprehensive portfolio of tools that helps to ensure a clean and safe relubrication procedure

- SYSTEM 24 Automatic Lubricators: LAGD 60, LAGD 125, LAGE 125, LAGE 250
- Grease guns: TLGH 1, 1077600, LAGH 400, LAGG 400B (When installing for the first time)
- Grease cartridge of the same grease used in the automatic lubricator
- Spare fittings
- Disposable grease resistant gloves TMGA G11D
- Clean lint-free clothes
- Mechanical tools to remove grease fittings, drainage plugs, and so on.
- Cleaning agent
- Spatula (if a grease change is required)
- Safety equipment

**Procedure:** Take the following guidelines into consideration when designing your procedures

- Clean the area surrounding the lubrication point
- When installing for the first time, make sure the bearing is prelubricated with the same grease (or a compatible one) used in the SYSTEM 24 automatic lubricator.
- Verify the piping\(^3\) (if any) and look for leakages.
- If any leakage is found report it for proper actions
- In case of LAGE series, check the led panel status to verify if any failure has been occurred. In case of LAGD series, check the setup date written on the label and verify a proper quantity of grease has been delivered according with the set up time. If any failure is detected please refer to the instructions manual to look for an advice
- If the SYSTEM 24 needs to be replaced follow these basic steps:
  - LAGD: Unscrew the previous unit and install a new one and start it making sure the piping is properly filled and there is no leakage afterwards. Finally write on the label the date and set up time.

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\(^3\) Remote mounting is suitable for LAGD series up to 30 cm and up to 3 m for LAGE
- LAGE: Unscrew the unit. Unscrew the canister and replace it with a new one. Change the batteries, set the proper time, tighten the unit again and screw it on the fitting.
  - Clean the area surrounding the bearing housing
  - Mark the task as completed in your lubrication routine
3. **Refilling Of Multi-Point Automatic Lubricators.**

When installing, inspecting or changing a single point lubricator, following guidelines are suggested:

**Tools required:** SKF offers a comprehensive portfolio of tools that helps to ensure a clean and safe relubrication procedure

- Battery driven grease gun: LAGG 400B
- Grease filling pumps: LAGF series
- Pneumatic grease guns: LAGG Series
- Disposable grease resistant gloves TMGA G11D
- Clean lint-free clothes
- Mechanical tools to remove grease fittings, etc
- Cleaning agent
- Safety equipment

**Procedure:** Take the following guidelines into consideration when designing your procedures

- Clean the area surrounding the lubrication point
- Verify the alarm status of the lubrication system in case some malfunction has occurred
- Stop the lubrication system according with safety procedures
- Top up the lubrication system reservoir by using a pneumatic pump of a filling pump
- If possible run a lubrication cycle to verify the proper functioning of the lubrication system
- Check the piping and application on leakage.
- Clean the area surrounding the bearing housing
- Mark the task as completed in your lubrication routine