Avoid fretting corrosion

Lubricate during mounting of bearing houses

Fretting can occur between the shaft and the inner ring for stainless bearings especially when they are mounted dry (without lubricant in between).

A high viscosity lubricating paste is the most important thing. Other things that increase the risk of fretting are a loose fit and not properly tightened set screws, misaligned bearings, and internal forces from poor mounting.

Please note!
Apply assembly paste to the inner ring of the bearing before mounting. Remember to re-tighten the set screws after 24 hours

Lubrication:
When the bearing and shaft are mounted without lubrication, there is an increased risk of fretting*. This results in dust causing damage to the spherical seal and the seal of the bearing and ultimately cause the bearing to break down.

Any lubrication can be used, but we recommend the following: **SKF Anti-Fretting Agent LGAF 3E.** The LGAF 3E anti-fretting agent from SKF has been designed to prevent fretting corrosion caused by slight oscillations and vibrations.

Bearings are easier to dismount after applying the smooth paste made from a mineral and synthetic base oil type. The anti-fretting agent also assists with the removal of general components such as, nuts, bolts, flanges, studs.

Therefore follow the instructions below to avoid fretting:

1) Lubricate the inside of the inner ring

2) Insert the bearing house over the shaft

3) Remove any large lumps of grease

4) Tighten set screws

Please scan the code to access the complete installation manual for NGI bearing houses.

Please scan the code to access our comprehensive technical guide for NGI bearing houses.

Fretting corrosion

Fretting corrosion is movements between two metal surfaces. In this way, metal particles are worn free and oxidize immediately. Oxidized iron particles can destroy shape tolerances on the shaft or housing, which can lead to serious damage to the bearing.

To ensure that the bearing assembly is carried out optimally in the first instance, NGI recommends that before assembly you must be very careful with cleaning the shaft, avoid dirt on the bearing itself and to use an assembly paste between the shaft and the bearing.

NGI A/S
Virkelyst 5 | DK-9400 Nørresundby | T: +45 9817 4500 | ngi@ngi.dk

ngi-global.com