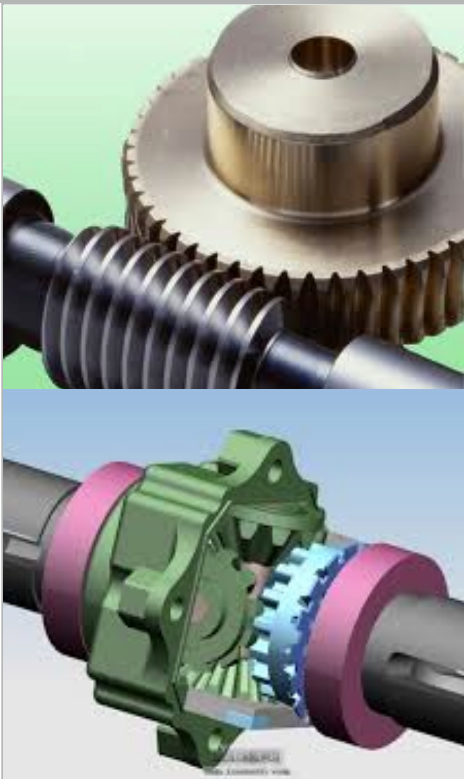


LUBRICATION FOR GEARBOX IN POWER TOOL



Gearbox

Unlike the regular ball or roller bearings, the rolling and sliding interaction in gear motions present a different challenge.

Modern gearbox design emphasizes the most power transfer while minimizing its noise and heat generation.

There's still another challenge, oil seal. The cost of machining and components associated with oil seal design will increase the cost of gearbox.

Other needs such as high/low temperature, anti-wear, corrosion resistance, are also often required.

Gearbox in power tool

Together with those operational challenges as mentioned above, a critical nature associated with gearbox in power tool is its narrow space. Only little amount of lubricant can be applied in this limited space, which has to stay on the gear surface for lubrication need during the life span of the power tool.

You need a grease which is hard enough not to leak, while soft enough to be able to wet the gear flank.

On the other hand, you need a grease with enough base viscosity and load carrying ability, yet the torque can not be too high.

All these factors make the lubricating situation complicated. And DULUB GLS958 is the excellent solution to dry sump gear lubrication for power tool.

DULUB GLS958

This is a synthetic grease with highly refined PAO thickened by special Li-complex soap.

GLS958 provides not only high lubricity, but also very good load carrying ability. Its adhesion toward plastic/metal surface is excellent, and thus it lasts longer.

Another feature worth notice is its low-temperature capability. Its

working temperature can be as low as minus 40 Celsius Degree.

GLS958 possesses very good plastic compatibility. It's not harmful for most engineering plastics.

Vibration motor

Vibrating motion of a bearing is always a headache for lubrication solution. People always try to reduce the vibrating motion to a minimum. But in some special designs vibrating motion is created intentionally, as in the case of vibration motor. As this high impact cannot be solved easily, most of the designers will let the bearings replaced regularly. Of course this causes high cost for maintenance. To address this need, DULUB has come up with a smart design of a very unique anti-vibration grease:

DULUB LAGERFETT VM63

LAGERFETT VM63 is a grease specially designed for vibration motor, with highly refined hydrocarbon mineral oil thickened by special lithium soap. It has very good film strength against thermal impact and shear stress impact, which protect the bearing from wear. It is made with plastic additive to absorb the amplitude of vibration, which can not be solved by MoS₂ additive under high frequency impact.

Assembly paste

Another lubricant may be used for gearbox in power tool is assembly paste:

DULUB ASSEMPASTE BN

ASSEMPASTE BN is a white paste to be used as protecting film at highly loaded mating zone., such as, bearing assembly- shaft and inner core, screw/nut combination, low speed lubrication and other assembly.

ASSEMPASTE BN has very good load carrying capability, low evaporation loss under thermal stress, very fine and smooth structure for ease of application, no melt no hardening. It protects your bearing inner core and shaft surface from damage by fretting movement.



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