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Grease Lubrication For Low Speed Bearing Applications

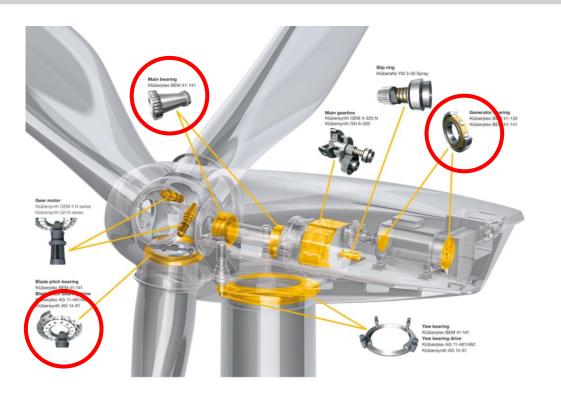
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Grease used in wind turbines

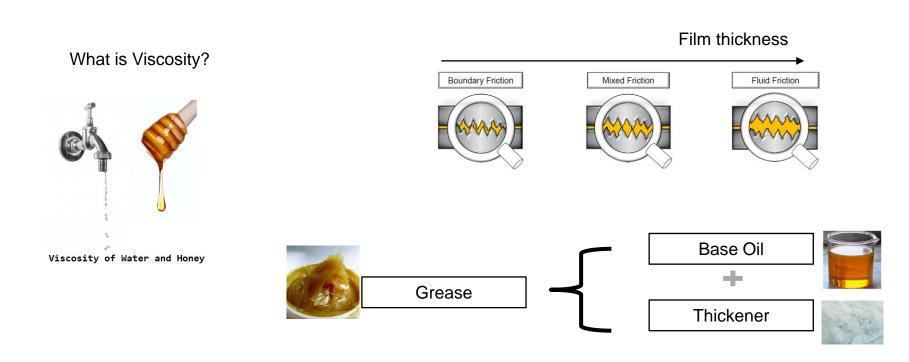






Viscosity, film thickness and grease







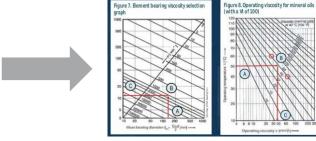
How to select the right grease for a lube point?



Conventional lubricant selection procedure

Application parameters

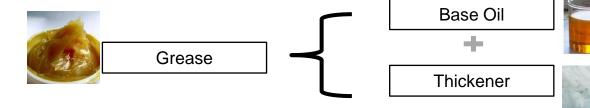
Bearing type Speed Load Temperature





Base Oil viscosity should be:

400 cSt!





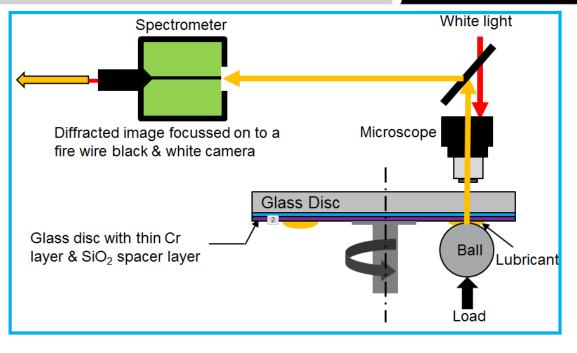




EHL Tribometer

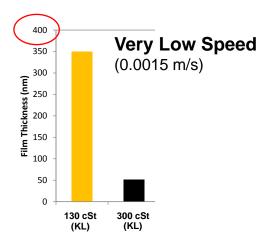


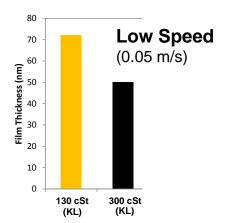


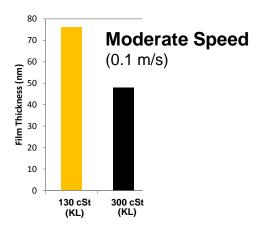


Film Thickness









- At low speeds, low viscosity grease forms a thicker lubricating film than the high viscosity grease
 - This is contributed by thickener



Summary



Conventional theory suggests that -

- Lubricant can be chosen only based on base oil viscosity
 - Not for grease lubrication
- Higher the base oil viscosity, better the film thickness
 - Not for grease lubrication at low speeds

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