SKF Wind turbine blade and yaw bearing grease

LGBB 2

SKF LGBB 2 is a lithium complex/synthetic PAO oil based grease specially designed for extreme conditions involving very low speeds, high loads, low temperatures and oscillating conditions. This grease provides proper lubrication whether the turbine is operating or in stand-still mode, installed onshore, offshore, or in cold climate areas.

- Excellent false brinelling protection
- Excellent performance under high loads
- Excellent performance at low temperature starting torque
- Good pumpability down to low temperatures
- Excellent water resistance
- Excellent corrosion protection
- High thermal and mechanical stability

Typical applications

- Wind turbine blade and yaw bearing applications

Available pack sizes

Packsize	Designation
420 ml cartridge	LGBB 2/0.4
5 kg can	LGBB 2/5
18 kg pail	LGBB 2/18
180 kg drum	LGBB 2/180

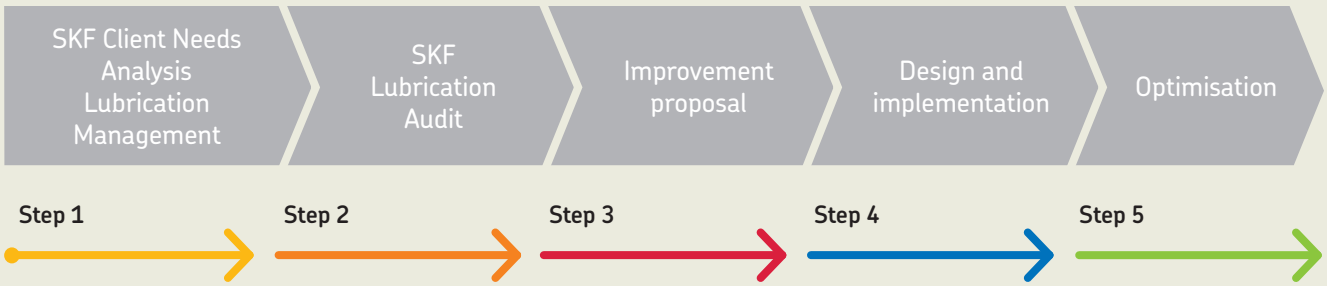
Technical data

Designation	LGBB 2/(pack size)
DIN 51825 code	KP2G-40
NLGI consistency class	2
Thickener	Lithium complex
Colour	Yellow
Base oil type	Synthetic (PAO)
Operating temperature range	–40 to +120 °C *(–40 to +250 °F)*
Dropping point DIN ISO 2176	>200 °C *(390 °F)*
Base oil viscosity	
40 °C, mm^2/s	68
Penetration DIN ISO 2137	
60 strokes, 10^{-1} mm	265–295
100 000 strokes, 10^{-1} mm	+50 max.
Mechanical stability	
Roll stability, 50h at 80 °C, 10^{-1} mm	+50 max.
Corrosion protection	
Emcor: – Standard ISO 11007	0–0
– Salt water test (100% sea water)	0–1 [1]
Water resistance	
DIN 51 807/1,	
3 hours at 90 °C	1 max.
Oil separation	
DIN 51817,	
7 days at 40 °C, static, %	4 max, 2,5 [1]
Copper corrosion	
DIN 51 811	1 max. at 120 °C *(250 °F)*
EP performances	
Wear scar DIN 51350/5, 1400 N, mm	0,4 [1]
4-ball test, welding load DIN 51350/4, N	5 500 [1]
Rolling bearing lubrication ability	
Fe8, DIN 51819,	
80 kN, 80 °C, C/P 1.8, 500 h	pass
False brinellng resistance	
ASTM D4170 FAFNIR test, mg	0–1 [1]

[1] Typical value

Lubrication management

Just as asset management takes maintenance to a higher level, a lubrication management approach allows lubrication to be seen from a wider point of view. This approach helps to effectively increase machine reliability at a lower overall cost.



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