

'Providing Tribological Solutions'

EXPLANATION OF TESTS

CHARACTERISTIC	COMMENTS
Base Oil Types	Vegetable oils like canola can be preferred.
Thickener	Calcium is good. Possibly avoid barium and lithium.
Biodegradable , % after 21 days, CEC L-33-T-82	Greater than 70% means that the product can be considered readily biodegradable.
Color	A natural color is desirable without chemical coloring agents.
Penetration , worked @25°C	Too high can increase leakage and too low can be hard to pump.
Dropping Point , (°C)	A higher dropping point is normally more desirable.
Apparent Viscosity	Higher viscosity for thicker oil films but not cause line blockage.
Ventmeter and Mobility	Better mobility should mean better pumpability.
Stability	The less it softens with working or with water the better.
Water Washout Loss (%)	The lower the better to reduce the loss of grease.
4 Ball EP and Wear	The higher the load and the less the wear the better.
Timken OK Load (kg)	The higher the better to protect the bearings and shaft.
Salt Fog , hours to failure	The longer the better.
Rust Protection	Protects the steel journals.
Copper Strip Corrosion , 24h@100°C, rating	Required to protect nonferrous bearings. Lower is better.

Other tests can be done as required.