

'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.