

Lubricity Connexion to Viscosity

The question of Lubricity comes up with Lubritherm Hydraulic Fluid because it has a low Viscosity Grade (VG) of 10 as compared with other hydraulic fluids, which carry an average VG of 40.

Oil based hydraulics uses the oil to lubricate, which necessitates a VG 40 in order to have adequate oil film thickness to prevent galling (metal-to-metal contact). It is generally accepted that thin oils do not provide enough lubrication. When oils get hot, viscosity goes down and so does the lubricity, which is why oil-based hydraulics have critical operating temperature zones. Conversely when oil gets below freeze point, it becomes more viscous and won't operate well as a hydraulic fluid.

Lubritherm Hydraulic Fluid does not contain oil*. Within its SAFE chemistry Lubritherm provides superior lubrication over mineral oils. The thin viscosity of Lubritherm is an advantage with its lack of possible air entrainment which provides instant hydraulic response. So no more hammer and shudder. Lubritherm hydraulic fluid provides continuous protection over an extended operating life of up to ten years, while inhibiting corrosion.

LubeCorp's Lubritherm Hydraulic Fluid is originally approved by Environment Canada under the Environmental Choice Program as Environmentally Safe, Biodegradable, Absolutely Non-Toxic, and Fireproof. Lubritherm has an Extreme temperature range from **-60°C** to **+80°C** (**-75°F** to **+175°F**), and is recommended as a direct replacement to all petroleum, vegetable, or other synthetic hydraulic oils. www.lubritherm.com

***Note:** Heat rejection capability of Lubritherm is substantially higher than mineral oil, resulting in a cooler running system. This significantly reduces the Viscosity Grade differential between mineral oil and Lubritherm at actual operating temperatures.

Originally Approved by:



under the Environmental Choice Program