

■ Safe Lube Hydraulic Fluids

- Safe Lube Hydraulic Fluids are comprised of unique blends of vegetable oils plus performance additives for hydraulic systems calling for ISO grade fluids.
- Superior boundary lubrication is supplied by state-of-the-art botanical blends while wear-reducers provide extra protection for particularly difficult applications.
- Load-carrying capability is installed via a unique 100% botanical-ester.
- This allows use of "green chemistry" to provide hydraulic ISO requirements in a regulatory-stable format.

■ Basic Properties:

ISO GRADE	32	46	68
Appearance	Straw Amber	Amber	Straw
ASTM D445 Viscosity SUS @100o F / @ 210o F	194 / 55	250 / 61	455 / 73
ASTM D445 Viscosity cSt @40o C / @ 100o C	38 / 8,5	49 / 10,3	89 / 13,5
ASTM D445 ISO Range cSt @40o C	28,8 / 39,2	41,4 / 50,6	61,2 / 90,0
ASTM D445 Viscosity Index	210	203	155
ASTMD97PourPoint o F / o C	<-22 / -30	<-22 / -30	<-22 / -30
ASTMD92FlashPoint o F / o C	>500 / 260	>500 / 260	>500 / 260
ASTM D4052 API Gravity	22,4	22,4	24,0
ASTM D974 Total Acid Number (Neut.No.)	0,24	0,34	0,47
ASTM D2272 Rotating Bomb Oxidation Test (Pass = < 25.4 psi drop)	22	24	16
ASTM D2266 & D4172 4-Ball Wear Test	mm @ 20 kg	mm@40kg	mm@40kg
	0,56	0,46	0,43
	0,56	0,49	0,60

■ Safe Lube Hydraulic Fluids:

- Non-toxic
- Non-reactive
- Non-carcinogenic
- Readily biodegradable
- Derived from renewable resources
- Safe to use, store and dispose of

■ Safe Lube Hydraulic Fluids do not contain:

- Petroleum distillates
- Sulfur
- Chlorine
- Synthetics
- Heavy Metals

■ Certifications

- USEPA 560/6-82-003

■ Advantages

- Reduces fluid temperatures up to 20°F.
- Extending fluid and equipment life.
- Inhibits hydraulic fluid foaming and oxidation.
- Reduces system and pump wear.
- Prevents sticking and seizing of actuators and servo valves.
- Increased seal life and resilience.
- Will not create sludge or varnish, increased life of fluids in system.
- Used oil is not hazardous, reducing disposal costs.
- Safe for Workers - not a skin or lung irritant.
- Unregulated product - not reported under: SARA, STCA or RCRA.
- Environmentally safe - Readily biodegradable (USEPA 560/6-82-003).

All of our products are natural and certified:



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