## ELM Hydraulic Industrial Jack Oil (ISO 22) Part Number: HF-180



## Premium Biodegradable - Biobased Hydraulic Oil

DESCRIPTION	ELM Biotechbased SoyFluid Hydraulic Jack Oil is a biodegradable hydraulic oil formulated with the best optimized USA grown natural seed oils that surpass the lubricity of most conventional oils. It protects against wear, has a high flash point for safety and is biodegradable.	
BIOBASED – BIODEGRADABLE-NON- BIOACCUMULATIVE	Based on evaluation of the base oils and the finished products, the ELM biobased products are designed to be biodegradable, aquatically non-toxic, not-bioaccumulative, and with no impact on plants as determined by known test methods. Nevertheless, the use of all of ELM products are subject to the local ordinances and ultimate responsibility for impact remains with the users.	
APPLICATIONS	<ul> <li>Recommended for use in industrial and home hydraulic jacks</li> <li>Not designed for use in hydraulic brake systems</li> </ul>	
BENEFITS	<ul> <li>Reduces wear through superior thin-film protection</li> <li>Maintains stable viscosity through wide operating temperature range</li> <li>Protects all ferrous metal components from rust and corrosion.</li> <li>Has superior flash and fire points for increased safety</li> <li>Superior performance for brass or bronze-on-steel contacts</li> <li>Good seal compatibility</li> <li>Mostly benign when released into the environment</li> <li>Conforms to EPA's EPP criteria</li> <li>Meets USDA's biobased product definition for Executive Order 13101</li> <li>Made from renewable USA-grown crop-based vegetable oils</li> </ul>	
TYPICAL PROPERTIES	ISO Viscosity Grade Viscosity at 40°C (cSt) Viscosity at 100°C (cSt) Viscosity Index Flash Point, °C (°F), ASTM D93 Low Temperature Operation, °C (°F) Rust & Corrosion, ASTM D-130 Base Oil Biodegradability – OECD 301 Base Oil Aquatic Toxicity – OECD 202 Base Oil Plant Toxicity - OECD 208	22 20-24 5-6 221 161 (322) -18 (0) 1A; Shiny Pass Non toxic
PACKAGING	5 Gal. Pails 55 Gal. Drums 275 Gal. Totes	

DATA PROVIDED IN THIS BULLETIN IS TO BE CONSIDERED AS REPRESENTATIVE OF CURRENT PRODUCTION GENERALLY AND NOT AS SPECIFICATIONS. WHILE ALL THE DATA PRESENTED IN THIS BULLETIN IS BELIEVED TO BE RELIABLE, AND BECAUSE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ELM MAKES NO REPRESENTATIONS, GUARANTEES OR WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR AS TO THE CORRECTNESS OR SUFFICIENCY OF DATA HEREIN PRESENTED. EACH USER SHOULD CONDUCT A SUFFICIENT INVESTIGATION TO ESTABLISH THE FITNESS OF ANY PRODUCT FOR ITS INTENDED PURPOSE. NO AGENT, REPRESENTATIVE, OR EMPLOYEE OF THIS COMPANY IS AUTHORIZED TO VARY ANY OF THE TERMS OF THIS NOTICE. TO CONTINUE TO PROVIDE SUPERIOR QUALITY, ELM RESERVES THE RIGHT TO CHANGE THE COMPOSITION OF ITS PRODUCTS WITHOUT NOTICE.

SoyFluid™, Biotechbased™ and the ELM logo are trademarks of Environmental Lubricants Manufacturing, Inc

Last updated 04-15-2019