

# ELM Hydraulic Industrial (ISO 46)

## Premium Biodegradable – Biobased Hydraulic Oils



<b>DESCRIPTION</b>	ELM Biotechbased SoyFluid™ Hydraulic Industrial (ISO 46 & 68) are biodegradable hydraulic oils formulated with the best optimized USA grown natural seed oils that surpass the lubricity of most conventional oils. They protect against wear, have high flash points for safety and are virtually biodegradable.	
<b>BIOBASED</b>	<i>Biobased, biodegradable, not-bioaccumulative, non-aquatic toxic, and not toxic to plants: 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.</i>	
<b>APPLICATIONS</b>	<ul style="list-style-type: none"> <li>■ Recommended for all industrial hydraulic systems</li> <li>■ Particularly suited for use in hydraulic systems near water, in forestry, and in other environmentally sensitive areas</li> </ul>	
<b>BENEFITS</b>	<ul style="list-style-type: none"> <li>■ Reduce wear through superior thin-film protection</li> <li>■ Maintain stable viscosity through wide operating temperature range</li> <li>■ Protect all ferrous metal components from rust and corrosion.</li> <li>■ Have superior flash and fire points for increased safety</li> <li>■ Mostly benign when released into the environment</li> <li>■ Good seal compatibility</li> <li>■ Meet USDA's Biobased product definition for Executive Order 13101</li> <li>■ Conform to EPA's EPP criteria</li> <li>■ Conform to State of Iowa SF 2249 - Purchasing Preference for Biobased Lubricants</li> <li>■ Made from renewable USA-grown crop-based vegetable oils</li> </ul>	
<b>PERFORMANCE LEVELS</b>	<ul style="list-style-type: none"> <li>■ Exceed Vickers 20-VQ and 104C Vane Pump Tests</li> <li>■ Pass Vickers 35-VQ Vane Pump Test</li> </ul>	
<b>TYPICAL PROPERTIES</b>	ISO Viscosity Grade	46
	Viscosity at 40°C (cSt)	44
	Viscosity Index	223
	Flash Point, °C (°F)	256 (493)
	Pour Point, °C (°F)	-25 (-13)
	Rust & Corrosion ASTM D-130	1A
	Base Oil Biodegradability	Pass
	Base Oil Aquatic Toxicity	Non toxic
<b>PACKAGING</b>	<ul style="list-style-type: none"> <li>Bulk</li> <li>55 Gallon Drums</li> <li>5 Gallon Pails</li> </ul>	

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