

STERN Eco Clear Bio-degradable Hydraulic Oil P-Series

STERN EcoClear Hydraulic Oils have outstanding stability and anti-wear characteristics designed to meet the demanding requirements of most all the major manufacturers and users of hydraulic equipment located in ecologic sensitive areas. These oils are polyromantic hydrocarbon-free, zinc-free, and inherently biodegradable and distinguished by their clear appearance and clarity retention in operating systems, good rust protection, low deposit formation, rapid release of entrained air, oxidation resistance, low pour points, and good antifoam properties. All grades comply with requirement levels of the U.S. EPA LC50 test utilizing marine statistical sampling of mysidopsis-bahia shrimp, rainbow trout, and fathead minnow.

APPLICATIONS

Recommended for critical application of vane and gear pumps operated at elevated pressure levels, i.e. in excess of 6,900 kPa or 1000 psi. For systems incorporating axial piston pumps with pressures in excess of 3500 psi, these oils can be used where the manufacturer specifies anti-wear hydraulic oils. These oils are very effective in reducing pump wear, satisfying lubrication requirements of auxiliary system components, and greatly extending the life of systems operating at high loads, speeds, and temperatures. All ISO Grades satisfy requirements of Vickers I-286-S and M-2950-S; Cincinnati Milacron specifications P-68, P69, and P-70. They meet Denison HF-0 and HF-2 requirements. They are suitable for hydraulics operating in the forest industry; dredges, cranes and other hydraulic equipment on offshore drilling and production facilities. Dielectric strength is warranted at the origin and can be maintained providing low moisture contents are sustained and agitation under humid conditions are minimized.

TYPICAL PROPERTIES

ISO 32	ISO 46	ISO 68
Water Clear	Water Clear	Water Clear
		67.2
5.3	6.8	8.6
100	99	98
-410	415	425
-25	-25	-20
0.55	0.55	0.55
33.1	32.4	31.6
No rust	No rust	No rust
10 Minutes	10 Minutes	10 Minutes
35KV	35KV	35KV
0.13	0.13	0.13
ANCINGO		
+10,000	+10,000	+10,000
	Water Clear 31.71 5.3 100 -410 -25 0.55 33.1 No rust 10 Minutes 35KV 0.13	Water Clear Water Clear 31.71 46.5 5.3 6.8 100 99 -410 415 -25 -25 0.55 0.55 33.1 32.4 No rust No rust 10 Minutes 10 Minutes 35KV 35KV 0.13 0.13

