



**COOLANT
CONTROL** Inc.

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Product Bulletin

Vulhydra Series

Low Pour/High VI Hydraulic Oils

Description

The Vulhydra series is a low pour/high viscosity index multi-grade hydraulic oil series which finds an application where broad operating temperatures are encountered. These products will provide good fluidity at low temperatures while better retaining their viscosity as operating temperatures rise, thus protecting the equipment during cold startup and operation. The Vulhydra is fortified with a special oxidation inhibitor which provides 4,000 hours oxidation stability and protects against thermal breakdown as well as a field proven anti-wear and anti-foam additive package.

The Vulhydra series of anti-wear hydraulic oils are premium quality fluids that are compounded with high VI paraffinic base stocks and state of the art additives. The Vulhydra series surpasses 4,000 hours in the ASTM D-943 Oxidation Stability Test.

These products are formulated to protect moving parts in hydraulic systems from wearing. Hydraulic systems typically contain some type of pump (vane, piston or gear) which maintains the oil pressure in the system. The moving parts in these pumps are susceptible to wear problems. ASTM D-2882 Vane Pump Testing of Petroleum Hydraulic Fluids is one test method used to evaluate anti-wear properties. The Vulhydra oils show a typical weight loss of 20 milligrams on the ring and 2 milligrams on the vanes of the Vickers pump used for the test method. This is considered excellent performance.

The advances that have been made in industrial machinery through improved technology in recent years have placed a tremendous burden on the lubricants required for operation of this machinery. This burden is the result of faster speeds, increased pressures, higher temperatures and various other factors associated with our modern day, high production oriented industry. Starting with the highest quality base stocks and additives available, the Vulcan hydraulic oils are designed to handle the above mentioned conditions. Actual field use has proven that the Vulhydra series give excellent performance in all hydraulic oil applications.

Typical Properties

Property	Vulhydra 15	Vulhydra 22	Vulhydra 32	Vulhydra 46	Vulhydra 68	Vulhydra 100	Vulhydra 150
Vis. @ 40°C, cSt	15	22	32	46	68	100	150
Vis. @100°C,cSt	3.90	5.08	6.71	8.50	11.50	13.95	18.50
Viscosity Index	164	170	174	164	164	142	135
Pour Point, °F	-40	-35	-30	-30	-20	-15	-10
Density, lbs/gal	7.07	7.13	7.15	7.23	7.26	7.35	7.38