



COOLANT CONTROL^{INC.}

The right chemistry...

...the right solution

Product Bulletin

Aries and Athena Series **Anti-wear Hydraulic Oils**

Description

The advances that have been made 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 Coolant Control hydraulic oils are designed to handle the above mentioned conditions. Actual field use has proven that the **Aries and Athena** series give excellent performance in all hydraulic oil applications as well as spindle and machine oil applications.

The **Aries & Athena** series are anti-wear hydraulic oils which also offer the same high quality rust and oxidation properties as the Pandora/Poseidon series. The **Athena Series** surpasses 4,000 hours in the ASTM-D-943 Oxidation Stability Test. Both the **Aries & Athena series** 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 **Aries and Athena series** 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.

Performance Benefits

- **Aries series** surpasses 2500 hours on the ASTM D-943 test (oxidation characteristics of inhibited steam turbine oil test)
- **Athena series** gives 4000 hours on the ASTM D-943 test (oxidation characteristics of inhibited steam turbine oil test)
- **Athena series** is NSF registered for food grade applications
- Both **Aries & Athena** perform excellent on the ASTM D-665 test (rust preventing characteristics of steam turbine oil test)

Compatibility with Work Materials and Change Out

Aries and Athena Series oils are compatible with all oil resistant seals and all metal and oil resistant surfaces. Check with your Coolant Control sales person for questions regarding compatibility.

Recommended Applications

Aries and Athena anti-wear hydraulic oils are designed to be used straight in any application requiring the use of an anti-wear hydraulic oil. Select the viscosity recommended by the equipment manufacturer.

Typical Characteristics

Aries Series	10	15	22	32	46	68	100
Athena Series	N/A	15	22	32	46	68	100
Viscosity @100°F, SUS	68	83	116	166	238	353	522
ISO VG	10	15	22	32	46	68	100
Viscosity Index	98	101	101	101	100	100	97
Flash Point °F	340	380	385	405	405	430	455
Pour Point °F	-10	0	+10	+10	+15	+15	+15
Density, lbs/gal	7.05	7.16	7.22	7.26	7.30	7.34	7.38