VAPRO HYDRO SYN 46

HIGH PERFORMANCE SYNTHETIC HYDRAULIC FLUID

DESCRIPTION

- **VAPRO HYDRO SYN** Series are a range of ultrahigh performance hydraulic fluids, designed with synthetic base stocks and an ash less, zinc-free additive system.
- **VAPRO HYDRO SYN** Series promote high temperature oxidation resistance, rapid water separation, wear, rust and corrosion protection.
- **VAPRO HDRO SYN** Series offer a very high viscosity index (VI) to help improve hydraulic response time across a wide temperature spectrum. **VAPRO HYDRO SYN** Series are designed to offer robust protection to mobile and stationary hydraulic equipment in both industrial and environmentally sensitive environments.

APPLICATION

- **VAPRO HYDRO SYN** Series designed to offer effective protection to both mobile and stationary hydraulic vane, piston and gear-type pumps in both high-performance industrial applications and environmentally sensitive areas.
- **VAPRO HYDRO SYN** Series designed to meet or exceed the performance requirements of conventional anti-wear hydraulic oils, in severe, high-output applications such as axial piston pumps, while offering an additional level of safety in case of leaks or incidental discharge to the environment.
- **VAPRO HYDRO SYN** Series has high level of oxidation stability is especially applicable in high efficiency (high speed, high temperature, high output) applications where severe stress is placed on the hydraulic fluid

PERFORMANCE FEATURES AND BENEFITS

- Ultra high performance ash less design promotes high level wear protection, rust and corrosion resistance, reducing downtime.
- Robust synthetic base stock technology contributes oxidation resistance and increased service life at high operating temperatures.
- Advanced synthetic formulation offers hydrolytic stability, rapid water separation performance, foam suppression and filterability.
- Very low acute aquatic toxicity to both fish and invertebrates based on tests of water accommodated fractions.
- Ash less formulation facilitates conventional recycling programs, offering
- improved environmental protection.
- High VI performance promotes wear protection across a wide temperature spectrum – from cold starts to high temperature operation.
- Multi-viscosity properties help lessen the need to change viscosity grades in line with seasonal variations.
- High VI design aids improved hydraulic response times across a
- wide operating temperature range.

SPECIFICATIONS AND APPOROVALS

- Parker Denison HF-0
- Eaton Brochure 03-401-2010
- DIN 51524 PART 2 & 3
- MAG IAS P-68, P-69, P-70
- U.S. Steel 127
- U.S. Steel 136
- Bosch Rexroth RD90220
- SAE MS1004

TYPICAL PHYSICAL CHARACTERISTICS

VAPRO HYDRO SYN SERIES	METHOD	46
Kinematic viscosity @ 40°C cSt @ 100°C cSt	ASTM D 445	 **46** **9.3**
Viscosity Index	ASTM D 2270	**186**
Total Acid Number , mgKOH/g	ASTM D 974	**0.33**
Copper Strip Corrosion, 3 hrs@150^{O}C	ASTM D 130	**1B**
Diaelectric Strength,kV	ASTM D 665	**>35**
Pour Point °C	ASTM D 97	**-42**
Flash Point ^{O}C	ASTM D 92	**230**

These characteristics are typical of current production. Whilst future production will conform to Vapro's specification, variations in these characteristics may occur.