VAPRO HYDRO EP 100

EXTREME PRESSURE INDUSTRIAL HYDRAULIC FLUID

DESCRIPTION

VAPRO HYDRO EP 100 is a premium high performance oils intended for industrial and mobile service where anti-wear lubricants are required. The **VAPRO HYDRO EP 100** is designed to satisfy the performance requirements for a wide range of hydraulic components in systems subjected to high-pressure, high-temperature operating environments. Their high level of resistance to oxidation and good thermal stability characteristics help reduce deposit formation and help prevent sluggish system operation. **VAPRO HYDRO EP 100** provide good protection against rust and corrosion in high humidity operations or where low levels of moisture are unavoidable. **VAPRO HYDRO EP 100** separate water readily and have very good air release properties. These products meet the performance requirements of a wide range of hydraulic system and component OEM's and are compatible with the pump and component metallurgy used by various manufacturers.

VAPRO HYDRO EP 100 is formulated with high quality base stocks and a carefully selected additive system that result in finished products that provide many desirable features to improve and prolong equipment life. They are designed to work with systems operating under moderate to severe conditions where a high level of anti-wear protection is needed, yet they are suitable for use in many systems where non-anti-wear hydraulic oils are generally recommended

APPLICATION

- Systems employing gear, vane, radial and axial piston pumps where anti-wear hydraulic oils are recommended
- Hydraulic applications where contamination or leakage are unavoidable
- Where small amounts of water are unavoidable and this water could damage components
- Systems containing gears and bearings where mild anti-wear characteristics are required
- Systems requiring a high degree of load-carrying capability and anti-wear protection
- Applications where thin oil-film corrosion protection is an asset such as systems where small amounts of water exist
- Machines containing a wide range of components using various alloys in their design

PERFORMANCE FEATURES AND BENEFITS

VAPRO HYDRO EP 100 provides outstanding performance in a range of equipment operating under moderate to severe conditions. Their excellent oxidation resistance allows extension of oil and filter change intervals while assuring clean systems. Their high level of anti-wear protection and excellent film strength characteristics result in exceptional equipment performance that not only results in fewer breakdowns but helps improve production capacity. Their controlled demulsibility permits the oils to work well in systems contaminated with small amounts of water yet readily separate large amounts of water.

SPECIFICATIONS AND APPOROVALS

- AFNOR NF-E 48-690/1
- AFNOR NF-E 48-603 HM
- Denison HF-0
- Vickers I-286-S
- Vickers M-2950-S
- DIN 51524 PART 2
- Cincinnati Machine P-68
- Cincinnati Machine P-70
- Cincinnati Machine P-69

TYPICAL PHYSICAL CHARACTERISTICS

VAPRO HYDRO EP	Method	100
Density @ 15°C kg/l	ASTM D 1298	**0.88**
Kinematic viscosity @ 40°C cSt @ 100°C cSt	ASTM D 445	 **100** **11.1**
Viscosity Index	ASTM D 2270	**96**
Flash Point °C	ASTM D 92	**230**
Pour Point °C	ASTM D 97	**-24**
Filterbility 1st 100 ml, 0.8µ,M 1082, sec		**180**
Copper Strip Corrosion	ASTM D 130	**1a**
Emulsion, Time to 3 ml Emulsion@54°C Minutes (max)	ASTM 1401	**30**

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