Product Data

ZIE HYDRO SUPER 46 & 68 ZF SC

Premium Zinc Free Hydraulic Oil

Applications:

Zie Hydro Super 46 ZF SC and 68 ZF SC are premium quality ashless, zinc-free hydraulic oil blends specially formulated for hydraulic and power transmission systems that are subjected to a wide range of ambient and operating temperature changes, even in environmentally sensitive applications. These oils are ideal for critical hydraulic systems such as high accuracy numerically controlled machine tools and those employing close clearance servo valves. The product is widely used for hydraulic systems of excavators, cranes and hydrostatic drives subjected to most severe outdoor operating conditions, such as high pressures and requiring high degree of load carrying capability and anti-wear protection.

Specifications:

Zie Hydro Super 46 ZF SC and 68 ZF SC are blends containing severely hydro processed Group II base oils, a highly shear stable polymer and an advanced ash-less additive system. They were developed for hydraulic applications operating in a wide range of temperatures or where a small viscosity change with fluctuating temperature is needed. The blends conform to performance levels such as Global industry standards viz. DIN 51524 Part 3 HVLP; AFNOR NFE 48-603 (HV); ISO: 11158; HV and majority of the international OEMs viz. Poclain, Hitachi, Fives Cincinnati (Former MAG IAS, LLC); and Eaton & Denison.

Advantages:

Zie Hydro Super 46 ZF SC and 68 ZF SC have excellent thermal and oxidative stability which reduces deposit formation and enables efficient pump performance even in low and high temperatures. These blends provide effective protection against wear, rust and corrosion leading to extended service life of the system plus longer oil and filter change intervals. The system gets effective protection at cold start-up as well as high operating temperatures. Over time, viscosity loss is negligible, ensuring 'stay-in-grade' performance of the oils even under high shear conditions. Their air release properties and faster water separation resists the formation of emulsions. Their hydrolytic stability helps prevent breakdowns and improve production capacity. Lastly, their advanced ash-less additive system minimizes environmental impact in case of an accidental spillage.

Typical characteristics:

Characteristics	Test Method	Zie Hydro Super ZF	
		46	68
Appearance	Visual	Bright and clear	Bright and clear
Colour, max.	ASTM D 1500	L 0.5	L 0.5
Kinematic viscosity, cSt at 40 °C	ASTM D 445	42-50	62-74
Viscosity index, min.	ASTM D 2270	160	160
Flash point (COC), °C, min.	ASTM D 92	200	220
Pour point, °C, max.	ASTM D 97	-21	-21
Copper strip corrosion, at 100 °C, 3 hrs.	ASTM D 130	1a	1a

The above figures are typical figures with normal production tolerance.

Health & Safety

These oils are unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of industrial and personal hygiene are maintained.