

Gazpromneft Hydraulic HZF - 32, 46, 68

Zinc-Free Hydraulic Oils



Hydraulic systems



Zinc-free



Excellent filterability



High anti-wear properties



Low foaming



High quality mineral base oils

Gazpromneft Hydraulic HZF oils are superior performance hydraulic oils developed for use in high-speed, high-pressure piston, vane and gear pumps. Formulated from high quality base stocks and advanced zinc-free additive system they provide oxidation resistance, thermal stability and corrosion protection even for copper-based alloys in severe hydraulic applications such as high-pressure axial piston pumps. Gazpromneft Hydraulic HZF are designed to work with systems operating under moderate to severe conditions where high levels of anti-wear and film strength protection are needed and can lead to extension of oil and filter change intervals and provide exceptionally clean systems and trouble-free operation.

Applications

- Manufacturing and industrial hydraulic systems
- Severe duty hydraulic service
- Marine and mobile hydraulic systems
- High pressure vane, piston and gear pumps operating at high temperatures
- Systems employing multi-metal designs in system components

Features, Advantages & Potential Benefits

- **Zinc-free anti-wear additives**
Reduced wear for systems using various metallurgy for excellent performance of components. Providing non contaminated waste water for environmentally friendly disposal
- **Controlled demulsibility**
Protects systems where small quantities of water are present and readily separates larger quantities of water for long oil and equipment life
- **Superior cleanliness**
In combination with active additives reduce the impact of contaminants on filter blocking to prolong the life of hydraulic equipment
- **Outstanding thermal and oxidation stability**
Reduced deposits and sludge formation to provide long oil and equipment life. Extends filter life
- **Excellent corrosion protection**
Prevents internal hydraulic system corrosion, reduces negative effects of moisture in systems for reduced maintenance costs.
- **Fast air release and low foaming**
Provide efficient hydraulic power transfer and minimize cavitation to prolong equipment life

Approvals & Specifications

Specifications	Gazpromneft Hydraulic HZF		
	32	46	68
Meet the requirements :			
DIN 51524 Part 2	✓	✓	✓
Fives Cincinnati	MAG P-68	MAG P-70	MAG P-69
Eaton Vickers 35VQ25	✓	✓	✓
Builder approvals:			
Denison Hydraulics HF-0,1,2	✓	✓	✓
Bosch Rexroth RE 90220-01	✓	✓	✓

Typical Characteristics

Properties	Method	Gazpromneft Hydraulic HZF		
		32	46	68
ISO Viscosity Grade		32	46	68
Kinematic Viscosity @40°C, mm ² /s	ASTM D 445	32	46	68
Kinematic Viscosity @100°C, mm ² /s	ASTM D 445	5,3	6,7	8,5
Viscosity Index	ASTM D 2270	97	96	95
Flash Point (COC), °C	ASTM D 92	218	226	236
Pour Point, °C	ASTM D 97	-32	-32	-32
Total Acid Number, mg KOH/g	ASTM D 664	0,2	0,2	0,2
Cleanliness class, max	ISO 4406	-/15/13	-/15/13	-/15/13
Density @20°C, kg/m ³	ASTM D 4052	870	875	880

Health, Safety & Environment

Information is provided for products in the relevant Safety Data Sheet (SDS). This provides guidance on potential hazards, precautions and first-aid measures, together with environmental effects and disposal of used products. SDS's are available upon request through your sales contract office. This product should not be used for purposes other than its intended use.