

Gazpromneft Hydraulic HLPD – 32, 46 and 68

Detergent Hydraulic Oils



Hydraulic systems



Excellent demulsibility



Detergent/dispersant additives



High anti-wear properties



Mineral

Gazpromneft Hydraulic HLPD oils are hydraulic oils containing selective additive system for protection of hydraulic systems, plus the addition of detergent/dispersant additives. They use ashless anti-wear technology to provide reliable performance where contaminants, deposits and water may enter the hydraulic system and damage pump parts. With Gazpromneft Hydraulic HLPD oils impurities dispersed and held in suspension, and adhering particles/deposits are dissolved.

Applications

- Hydraulic systems, where due to high ingresses of water or contamination a high level of dispersancy is required to prevent water dropout in the system
- Applications that experience high levels contamination e.g. mobile hydraulic units (excavators, bulldozers, wheel loaders, truck hydraulic systems). Not applicable for low-start operation temperatures
- Applications where HLPD lubricant is required

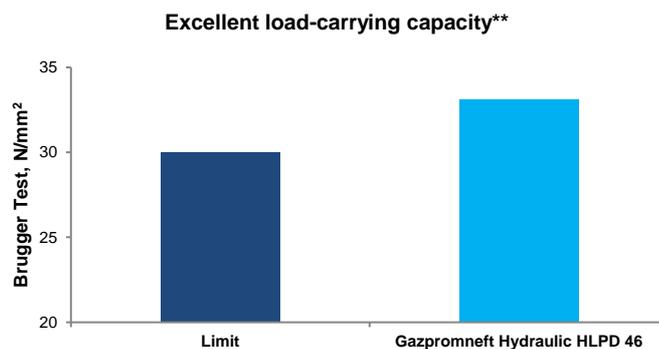
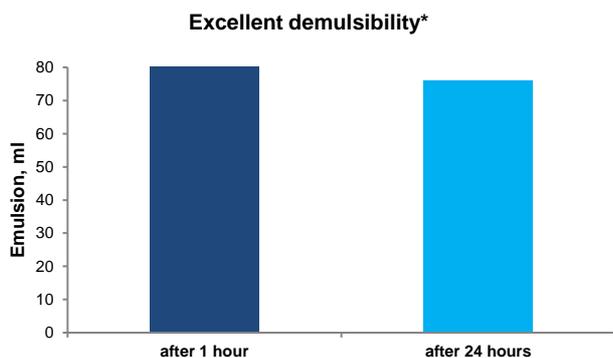
Features	Advantages and Potential Benefits
Excellent demulsibility	Emulsifies water without deteriorating the good anticorrosion and lubrication properties
Special detergent/dispersant additive system	Excellent keep-clean performance in the hydraulic system
Ashless friction additives	Reduced wear for systems using various metallurgy for excellent performance of components. Providing non contaminated waste water for environmentally friendly disposal
Excellent corrosion protection	Preventing corrosion in the presence of water for increased equipment protection and equipment life
Outstanding thermal and oxidation stability	Reduced deposits and sludge formation to provide long oil and equipment life. Extends filter life

Meets the requirements:

- DIN 51524 Part 2 (except demulsifying ability)

Typical Characteristics

Properties	Method	Gazpromneft Hydraulic HLPD		
		32	46	68
ISO Viscosity Grade		32	46	68
Kinematic Viscosity @40°C, mm ² /s	ASTM D445	32	46	68
Kinematic Viscosity @100°C, mm ² /s	ASTM D445	5,3	6,7	8,5
Viscosity Index	ASTM D2270	97	96	95
Flash Point (COC), °C	ASTM D92	218	226	236
Pour Point, °C	ASTM D97	-23	-22	-21
Total Acid Number, mg KOH/g	ASTM D664	0,3	0,3	0,3
Cleanliness class, max	ISO 4406	-/17/14	-/17/14	-/17/14
Density @15°C, kg/m ³	ASTM D4052	875	879	885



*ASTM D1401; **Bruggen

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.