

## Gazpromneft Hydraulic HLP – 32, 46, 68, 100

Hydraulic Oils



Hydraulic systems



Anti-wear protection



Excellent filterability



Low foaming



Corrosion protection



Mineral

**Gazpromneft Hydraulic HLP** oils use high quality, high viscosity index mineral oil and additive package to provide outstanding protection in most manufacturing and many mobile equipment operations. They resist breakdown under heat or mechanical stress and help prevent damaging deposit formation that can decrease the efficiency of hydraulic power systems. Proven zinc-based anti-wear additives effective throughout the range of operating conditions. Gazpromneft Hydraulic HLP oils meet the most performance requirements of a wide range of hydraulic system and component manufacturers.

### Applications

- Wide range of industrial hydraulic systems
- Suitable for systems with high intensity of hydraulic power including injection molding and high pressure metal pressing
- High output piston, gear, vane and axial-piston pumps
- Hydraulic pumps by wide range of manufacturers, including Denison, Cincinnati Machine, Eaton Vickers, Bosch Rexroth, Battenfeld, Beltramelli

Features	Advantages and Potential Benefits
Enhanced anti-wear protection	Help extend component life and improve production capacity
Superior cleanliness	In combination with active additives reduce the impact of contaminants on filter blocking to prolong the life of hydraulic equipment
Excellent thermal and oxidation stability	Reduce maintenance downtime and costs by contributing to system cleanliness and deposit reduction, enable long oil and filter life
Corrosion protection	High acid neutralizing properties provide superior protection of steel and iron materials to extend overhaul intervals
Compatible with all common seal materials	Maintains effective leakage control
Fast air release and low foaming	Provide efficient hydraulic power transfer and minimize cavitation to prolong equipment life

**Gazpromneft Hydraulic HLP series meets the requirements of**

Specifications	Gazpromneft Hydraulic HLP			
	32	46	68	100
DIN 51524 Part 2	✓	✓	✓	✓
ISO 11158	✓	✓	✓	✓
Bekum		✓		
Danieli		✓	✓	
Demag			✓	
Bosch Rexroth 90220-01				✓
Fives Cincinnati	P-68	P-70	P-69	

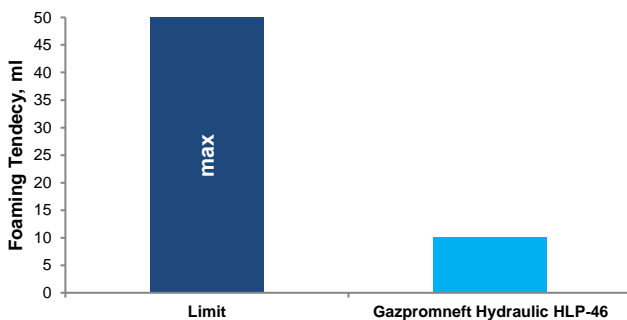
**Gazpromneft Hydraulic HLP series has the following builder approvals**

Specifications	Gazpromneft Hydraulic HLP			
	32	46	68	100
Bosch Rexroth RDE 90245 Fluid Rating List	✓	✓	✓	
Battenfeld	<i>meets</i>	✓	<i>meets</i>	<i>meets</i>
Beltramelli	✓	✓	✓	<i>meets</i>
Denison Hydraulics HF-0,1,2	✓	✓	✓	<i>meets</i>
Eaton E-FDGN-TB002-E (35VQ25)	✓	✓	✓	<i>meets</i>
Engel		✓		
Woojin Plaimm	✓	✓	✓	

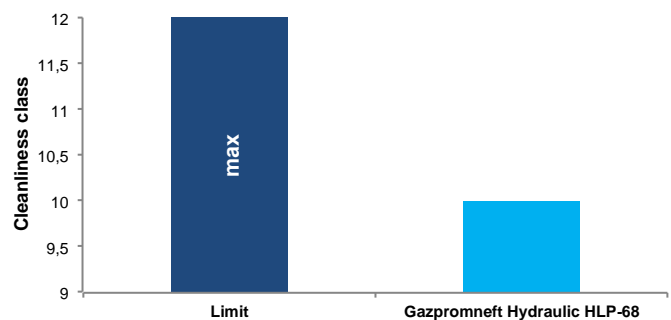
**Typical Characteristics**

Properties	Method	Gazpromneft Hydraulic HLP			
		32	46	68	100
Kinematic Viscosity at 40 °C, mm <sup>2</sup> /s	ASTM D445	32	46	68	100
Kinematic Viscosity at 100 °C, mm <sup>2</sup> /s	ASTM D445	5,5	6,8	8,7	11,1
Viscosity Index	ASTM D2270	100	99	97	94
Flash Point (COC), °C	ASTM D92	229	227	238	242
Pour Point, °C	GOST 20287	-38	-34	-33	-30
Total Acid Number, mg KOH/g	GOST 11362	0,6	0,6	0,6	0,6
Cleanliness class, max	GOST 17216	10	10	10	10
Density at 15°C, kg/m <sup>3</sup>	ASTM D4052	876	885	886	891

**Excellent foaming control\***



**Superior cleanliness\*\***



\*ASTM D892; \*\*ISO 4406

**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.