



# Gazpromneft Hydraulic HLP - 32, 46, 68 and 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 contaminant 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		

## ISO 9001

ISO 14001

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#### ISO/TS 16949

OHSAS 18001

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

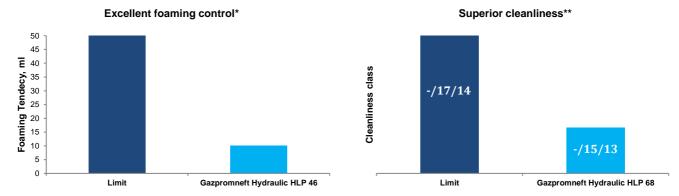
Specifications	Gazpromneft Hydraulic HLP					
	32	46	68	100		
DIN 51524 Part 2	$\checkmark$	✓	√	✓		
ISO 11158	$\checkmark$	✓	✓	✓		
Bekum		✓				
Danieli		✓	✓			
NATO		$\checkmark$	$\checkmark$			
Demag			$\checkmark$			

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

<b>Chapitiantiana</b>	Gazpromneft Hydraulic HLP				
Specifications	32	46	68	100	
Bosch Rexroth RDE 90245 Fluid Rating List	$\checkmark$	✓	✓		
Battenfeld	meets	$\checkmark$	meets	meets	
Beltramelli	$\checkmark$	$\checkmark$	$\checkmark$	meets	
Denison Hydraulics HF-0,1,2	$\checkmark$	$\checkmark$	$\checkmark$	meets	
Eaton Vickers 35VQ25	$\checkmark$	$\checkmark$	$\checkmark$	meets	
ENGEL		✓			
Fives Cincinnati	P-68	P-70	P-69		
Woojin Plaimm	$\checkmark$	$\checkmark$	$\checkmark$		

## **Typical Characteristics**

Properties	Method	Gazpromneft Hydraulic HLP			
		32	46	68	100
ISO Viscosity Grade		32	46	68	100
Kinematic Viscosity @40°C, mm <sup>2</sup> /s	ASTM D445	32	46	68	100
Kinematic Viscosity @100°C, mm <sup>2</sup> /s	ASTM D445	5,5	6,8	8,7	11,1
Viscosity Index	ASTM D2270	108	100	99	94
Flash Point (COC), °C	ASTM D92	229	227	238	242
Pour Point, °C	ASTM D97	-38	-34	-33	-30
Total Acid Number, mg KOH/g	ASTM D664	0,6	0,6	0,6	0,6
Cleanliness class, max	ISO 4406	-/15/13	-/15/13	-/15/13	-/15/13
Density @15°C, kg/m <sup>3</sup>	ASTM D4052	876	885	886	891



\*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.

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