

## Gazpromneft Hydroil HVLP – 10, 15, 22, 32, 46, 68

Hydraulic Oils



Hydraulic systems



Wide range of operating temperatures



High anti-wear properties



Excellent filterability



High quality mineral base oils

**Gazpromneft Hydroil HVLP** oils are premium high performance anti-wear hydraulic oils designed to satisfy a wide range of hydraulic equipment requirements. Formulated with high-quality mineral base oils and selected additives they provide very good anti-wear properties, rust and corrosion protection, oxidation resistance and antifoam properties. The high viscosity indexes provide excellent low and high temperature properties for equipment that is subjected to a wide range of start-up and operating temperatures. They are designed for systems operating under moderate conditions where high levels of anti-wear protection are needed.

### Applications

- Wide variety of industrial and mobile applications
- Hydraulic systems requiring anti-wear oils
- Systems containing gears and bearings requiring mild anti-wear properties
- Systems where low start-up and high operating temperatures are typical, including outdoor applications
- Hydraulic pumps by wide range of manufacturers, including Denison, Cincinnati Machine, Eaton Vickers, Bosch Rexroth

Features	Advantages and Potential Benefits
High Viscosity Index and good shear stability	Maintain excellent viscosity characteristics for long periods of time for long equipment life
Good low temperature performance	Good fluidity conditions provide good pumpability at low temperatures
Very good foam control	High performance and smooth hydraulic operations
Exceptional corrosion protection	Reduces the negative effects of moisture on system components
Effective oxidation and thermal stability	Reduce deposits and improve valve performance
Excellent anti-wear properties	Proven zinc-based additives help to reduce wear and protects pumps and components for extended equipment life
Ultra keep clean performance	Reduced system deposits leading to reduced machine maintenance and increased component life

### Meet the requirements:

- DIN 51524 Part 3
- Denison Hydraulics HF-0,1,2 (Gazpromneft Hydroil HVLP - 32, 46, 68)
- Eaton Vickers 35VQ25
- Bosch Rexroth RE 90220-01
- Fives Cincinnati P-68 (Gazpromneft Hydroil HVLP-32)
- Fives Cincinnati P-70 (Gazpromneft Hydroil HVLP-46)
- Fives Cincinnati P-69 (Gazpromneft Hydroil HVLP-68)

## Typical Characteristics

Properties	Method	Gazpromneft Hydroil HVLP				
		10	15	22	32	46
ISO Viscosity Grade		10	15	22	32	46
Kinematic Viscosity @40°C, mm <sup>2</sup> /s	ASTM D 445	10	15	22	32	46
Kinematic Viscosity @100°C, mm <sup>2</sup> /s	ASTM D 445	3,0	4,0	4,9	6,4	7,9
Kinematic Viscosity, mm <sup>2</sup> /s	ASTM D 445	1100 @-40°C	600 @-30°C	700 @-20°C	1200 @-20°C	1100 @10°C
Viscosity Index	ASTM D 2270	170	170	155	160	142
Flash Point (COC), °C	ASTM D 92	175	160	196	218	226
Pour Point, °C	ASTM D 97	-60	-58	-50	-46	-40
Cleanliness class, max	ISO 4406	-/17/14	-/17/14	-/17/14	-/17/14	-/17/14
Density @20°C, kg/m <sup>3</sup>	ASTM D 4052	820	840	865	870	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.