

## Gazpromneft Hydraulic Standard HVLP - 32, 46



Hydraulic systems



All-season products



Wear protection



Mineral base oils

Gazpromneft Hydraulic Standard HVLP are all-season hydraulic oils. Designed for use in hydraulic systems of mobile and stationary machinery working in wide range of ambient temperatures. Products have optimal combination of properties according to DIN 51524 Part 3 requirements, outperforming it in some characteristics and providing more effective machinery operation.

### Properties/Features/Potential benefits

- Enhanced Viscosity Index → ability to work in wide ambient temperatures range → easier hydraulic system start-up and shorter warm-up time
- Improved cleanliness level → better wear protection for hydraulic system precision details → equipment life preservation
- Good wear protection → additional protection for hydraulic pumps, cylinders and other moving parts → lowering maintenance cost
- Corrosion protection → better rust & corrosion protection of yellow and ferrous details in presence of water → lowering repair cost
- Sealing materials & polymers compatibility → no negative oil effects on sealing materials → oil leakage risk minimization

### Application

- Hydraulic systems of stationary and mobile machinery, working in wide range of ambient temperatures.
- Construction, agricultural and other special purpose machinery.
- Hydraulic systems, requiring DIN 51524 Part 3 or/and ISO 6743/4 HV class hydraulic oils.
- For heavy-loaded hydraulic systems and machinery, requiring oil with higher viscosity shear stability Gazpromneft Hydraulic HVLP range products are recommended.

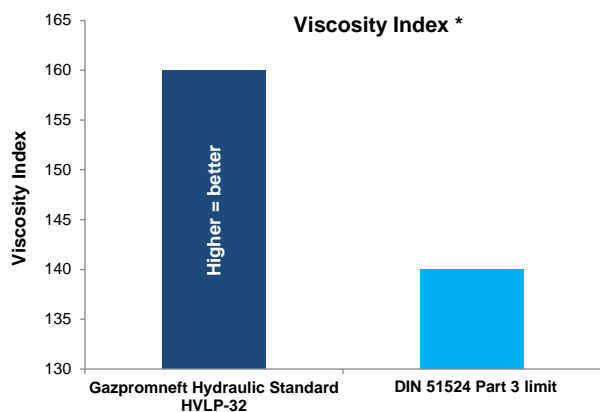
### Health, Safety, Environment

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.

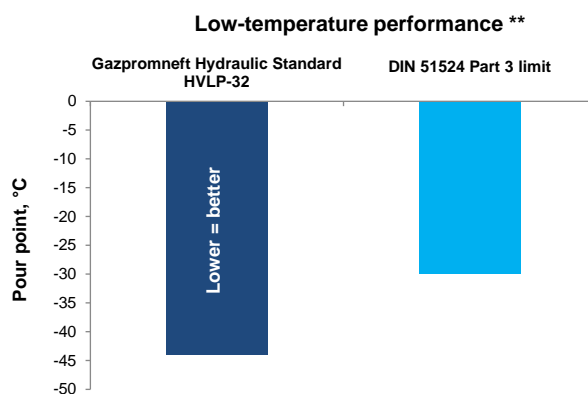
Specifications	ISO viscosity grade	
	32	46
DIN 51524 Part 3	✓	✓
ISO 6743/4 HV	✓	✓

## Typical characteristics

Properties	Method	ISO viscosity grade	
		32	46
Kinematic Viscosity at 40 °C, mm <sup>2</sup> /s	ASTM D 445	32	46,16
Kinematic Viscosity at 100 °C, mm <sup>2</sup> /s	ASTM D 445	6,45	7,97
Kinematic Viscosity below zero (at temperature °C), mm <sup>2</sup> /s	ASTM D 445	1500 (-20 °C)	1100 (-10 °C)
Viscosity Index	ASTM D 2270	160	145
Flash Point (COC), °C	ASTM D 92	206	224
Pour Point, °C	ASTM D 97	-44	-42
Density at 20 °C, g/cm <sup>3</sup>	ASTM D 4052	0,862	0,870
Cleanliness level, max	ISO 4406 GOST 17216	-/17/14 12	-/17/14 12
Copper plates corrosion at 100 °C and 3 hours, merit	ASTM D 130	1b	1b



Gazpromneft Hydraulic Standard HVLP products have stable performance in wide ambient temperatures range.



Gazpromneft Hydraulic Standard HVLP products have improved low-temperature performance.

\* ASTM D2270 test; \*\* ASTM D97 test

## Certified

ISO 9001



ISO 14001



ISO/TS 16949



ISO 45001

