

G-Special Hydraulic HVLP-22, 32, 46, 68



Hydraulic Systems



All-season application



High anti-wear properties



Anti-oxidation stability



High viscosity stability



Excellent filterability



High-quality mineral base oils

G-Special Hydraulic HVLP-22, 32, 46, 68 – a series of oils with excellent viscosity-temperature characteristics for all-season application in hydraulic systems of mobile equipment. Hydraulic working fluids are designed for hydraulic drives where oils with high stability to mechanical degradation are required to ensure system performance over the entire oil drain interval, and high stability to oxidation in order to keep the system clean.

Application



- Hydraulic systems of mobile equipment (construction, mining, logging, municipal) operating in a wide range of ambient temperatures.
- Hydraulic drives of stationary equipment operating outdoors.
- For use in various hydraulic pumps, including those manufactured by Denison, Cincinnati Machine, Eaton Vickers, Bosch Rexroth.

Advantages/Potential benefits

The **G-Special Hydraulic HVLP** range of oils utilizes the latest generation of thickener to ensure high hydraulic system efficiency under severe working conditions:

Characteristics	Advantages/Potential benefits
Stability of viscosity characteristics	Maintaining the required viscosity over a wide temperature range – high pump performance
High antioxidation stability	The possibility of extending the service life of the working fluid – reducing the cost of lubricants
Excellent antiwear properties	Protection of friction parts of pumps in various modes – ensuring the maximum service life of the equipment
Excellent filterability	Keeping the filters of the hydraulic system clean – reducing the cost of components
Thermal stability	Minimization of deposits – increased cleanliness of the hydraulic system
Rapid air separation	Pumps cavitation prevention – maintenance cost reduction

Typical physical and chemical characteristics

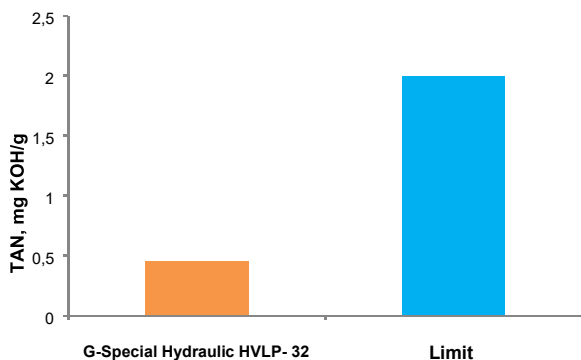
Parameters	Value				Method
	22	32	46	68	
Kinematic viscosity, mm ² /s					
at 40 °C	20,8	31,1	47,6	67,4	GOST 33
at 100 °C	4,9	6,8	8,2	10,8	
at -20 °C	547,0	1032,0	-	-	
at -10 °C	-	-	950,0	-	
Viscosity Index	161	150	153	152	GOST 25371
Flash point, (COC), °C	210	206	228	227	GOST 4333
Pour Point, °C	-55	-50	-46	-41	GOST 20287
General purity class	14	14	14	14	GOST 17216
Density at 20 °C, kg/m ³	841,2	845,7	852,7	854,5	GOST 3900

Specifications

- DIN 51524 Part 3
- ISO 11158 HV
- Denison Hydraulics HF-0,1,2 (ISO 32, 46, 68)
- Bosch Rexroth RDE 90235 (ISO 32, 46, 68)
- Fives Cincinnati P-68 (ISO 32)
- Fives Cincinnati P-69 (ISO 68)
- Fives Cincinnati P-70 (ISO 46)
- Eaton E-FDGN-TB002-E (35VQ25) (ISO 32, 46, 68)

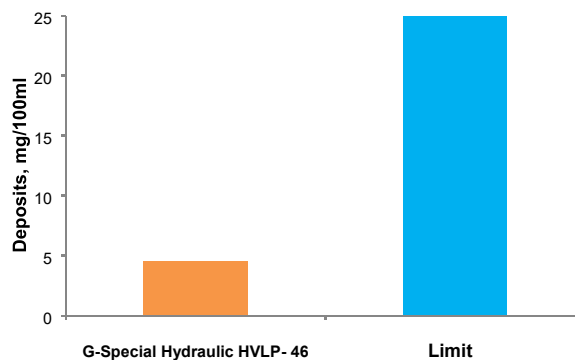
G-Special Hydraulic HVLP – 22, 32, 46, 68 hydraulic oils exceed the requirements of the main specifications according to the tests:

Antioxidation stability*



High stability against oxidation of G-Special Hydraulic HVLP-32 provides the possibility of extending drain interval

Deposits in the hydraulic system**



Excellent resistance against thermal decomposition of G-Special Hydraulic HVLP-46 allows to retain the service life of equipment hydraulic drives

* ASTM D664 test; ** ASTM D2070 test

The company's management system is certified in accordance with the international standards

ISO 9001



ISO 14001



ISO 45001

