

G-Special Hydraulic HVLPD-46



Hydraulic systems



All-season application



High anti-wear properties



Excellent emulsifying ability



Dispersing properties



High-quality mineral base oils



Zn-free additive package

G-Special Hydraulic HVLPD-46 – ashless hydraulic working fluid for all-season application in hydraulic systems of mobile equipment where it is impossible to drain the system. The oil contains dispersing and emulsifying additives to ensure reliable equipment operation and to reduce the negative effects of water. The oil perfectly retains water in volume, protecting equipment components from corrosion and wear.

Application



- Hydraulic systems of mobile off-road agricultural, mining, and construction equipment operating in contact with water without the possibility of draining it from the tank.
- Hydraulic drives operated in a wide range of temperatures.
- Hydraulic systems where HVLPD level fluids are recommended by the manufacturer.

Advantages/Potential benefits

G-Special Hydraulic HVLPD-46, with the use of emulsifying and dispersing additives of the latest generation, ensures high efficiency of the hydraulic system under various operating conditions:

Characteristics	Advantages/Potential benefits
Excellent emulsifying properties	Binding of water entering from the external environment with its subsequent filtration – high performance of the equipment
High dispersing capacity	Maintaining suspended dirt particles to minimize abrasive wear – reducing repair costs
Good viscosity-temperature characteristics	The possibility of all-season application of the working fluid – reducing the cost of lubricants
Excellent anti-wear properties	Effective protection of pumps – maintaining the service life of the equipment
Protection against corrosive environment	Protection of metals from the negative effects of water – long-term trouble-free operation of the system
Compatibility with various sealing materials	Reliable operation of hydraulic drives – reduced maintenance requirements

Typical physical and chemical characteristics

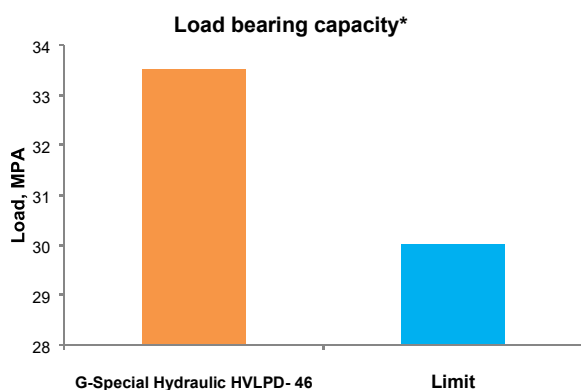
Parameters	Value	Method
Kinematic viscosity, mm ² /s at 40 °C at 100 °C	47,7 8,3	GOST 33
Viscosity index	150	GOST 25371
Flash point, COC, °C	213	GOST 4333
Pour Point, °C	-49	GOST 20287
Cleanliness class	14	GOST 17216
Density at 20 °C, kg/m ³	867,6	GOST R 57037
Corrosion of copper, 3 hours at 100 °C	1b	GOST 2917

Specifications

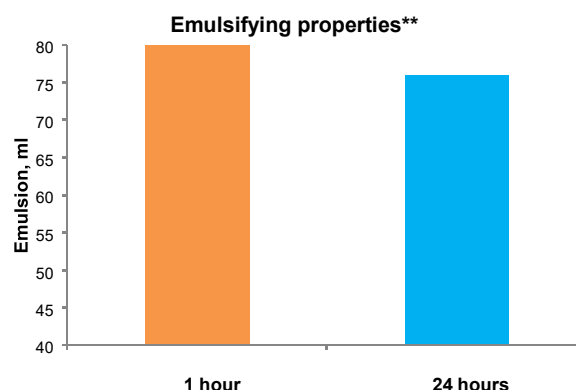
- DIN 51524 Part 3*

*- with the exception of the demulsifying properties indicator of ASTM D1401 (this indicator is not applicable for oils of the HVLDPD level)

G-Special Hydraulic HVLDPD-46 hydraulic oil exceeds the requirements of the main specifications according to the tests:



High load-bearing capacity of G-Special Hydraulic HVLDPD-46 allows to minimize the wear of hydraulic pumps and save their service life



Excellent emulsifying properties characterize the ability of oil to retain water in volume, improving equipment performance

*Test Brugger; **Test ASTM D1401

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

ISO 9001



ISO 14001



ISO 45001

