# **Product Information**

## **AVENO Hydraulic HVLP 46**

0002-000244



#### Description

AVENO Hydraulic HVLP 46 is a multi-grade hydraulic oil developed on the basis of specially selected base oils. AVENO Hydraulic HLVP 46 offers a high wear protection, even under extreme loads, thanks to effective additives. AVENO Hydraulic HLVP 46 is characterized especially by a very good viscosity and temperature behavior and reliable corrosion protection.

### Instructions for use

AVENO Hydraulic HVLP 46 can be used primarily in hydraulic systems with heavily fluctuating operating temperatures. AVENO Hydraulic HVLP 46 is ideal for heavyloaded hydraulic systems, earth-moving machines and agricultural machinery. It is favored at heavily fluctuating operating temperatures and may not be used in hydraulic systems which contain silver or silver-plated construction and operating elements.

Quality classification	
Specification	
• AFNOR NF E 48-603 HV	• ISO 11158 HV
• AFNOR NF E 48-690/1	• ISO 6743-4 HV
• CETOP RP 91H HV	• JCMAS HK VG32W
• DIN 51524-3	• SAE MS1004
• GB 111118.1 L-HV	
Recommendation	
Bosch Rexroth RE90220	• Fives Cincinnati P-68
• Denison HF-0/HF-1/HF-2	• GM LH-03-1-04, GM LS-2
<ul> <li>Eaton/Sperry Vickers I-286-S</li> </ul>	Sauer-Danfoss 520L0463
• Eaton/Sperry Vickers M-2950-S	• US Steel 127/136
Properties	
• Excellent wear protection	Reliable protection against corrosion
Stable viscosity index	<ul> <li>Good air and water separation capacity, thereby preventing foam formation</li> </ul>
<ul> <li>Very good oxidation stability</li> </ul>	Very low pour point
Neutral towards sealants	

#### Technical specifications

Properties	Data	Unit	Testing under	
Kinematic Viscosity at 40°C	45.6	mm²/s	DIN 51659-2:2017-02	
Kinematic Viscosity at 100°C	7.9	mm²/s	DIN 51659-2:2017-02	
Viscosity Index	146		DIN ISO 2909:2004-08	
Appearance	YELLOW		VISUELL	
Density at 15°C	858	kg/m³	DIN EN ISO 12185:1997-11	
Pour Point	-42	°C	ASTM D 7346:2015	

Notice: To the best of our knowledge, all of the information provided was in accordance with the latest findings and developments of the Deutsche Ölwerke Lubmin GmbH. Our products are subject to continuous development. For this reason, our products, the manufacturing processes and all related information on this product page are subject to change at any time and without notice, unless customer-specific agreements exist. The data listed are based on standardized test procedures under appropriate laboratory conditions and are to be regarded as general, non-binding reference values.