

# Product Information

## AVENO Hydraulic HVLP AF 32

0002-000228



### Description

AVENO Hydraulic HVLP AF 32 is an ash- and zinc-free multi-grade hydraulic oil. AVENO Hydraulic HVLP AF 32 offers a high wear protection, even under extreme loads, thanks to effective additives. AVENO Hydraulic HVLP AF 32 is characterized especially by a very good viscosity and temperature behavior and reliable corrosion protection.

### Instructions for use

AVENO Hydraulic HVLP AF 32 can be used primarily in hydraulic systems with heavily fluctuating operating temperatures. AVENO Hydraulic HVLP AF 32 is ideal for heavy-loaded 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
- AFNOR NF E 48-690/1
- CETOP RP 91H HV
- GB 111118.1 L-HV
- ISO 11158 HV
- ISO 6743-4 HV
- JCMAS HK VG32W
- SAE MS1004

#### Recommendation

- Bosch Rexroth RE 90220
- Denison HF-0/HF-1/HF-2
- Eaton/Sperry Vickers I-286-S
- Eaton/Sperry Vickers M-2950-S
- Fives Cincinnati P-68
- GM LH-03-1-04, GM LS-2
- Sauer-Danfoss 520L0463
- US Steel 126/127/136

### Properties

- Reliable protection against corrosion
- Excellent wear protection
- Very good oxidation stability
- Very low pour point
- A stable viscosity index
- Prevention of foam formation thanks to good air and water separation capacity
- Neutral towards sealing agents

### Technical specifications

| Properties                   | Data   | Unit               | Testing under            |
|------------------------------|--------|--------------------|--------------------------|
| Kinematic Viscosity at 40°C  | 32.1   | mm <sup>2</sup> /s | DIN 51659-2:2017-02      |
| Kinematic Viscosity at 100°C | 6.5    | mm <sup>2</sup> /s | DIN 51659-2:2017-02      |
| Viscosity Index              | 160    |                    | DIN ISO 2909:2004-08     |
| Appearance                   | YELLOW |                    | VISUELL                  |
| Density at 15°C              | 855    | kg/m <sup>3</sup>  | DIN EN ISO 12185:1997-11 |
| Pour Point                   | -48    | °C                 | ASTM D 7346:2015         |