

Agip Arnica

DIN 51524 PART III HVLP

Multigrade hydraulic fluid based on mineral oil with increased viscosity index and excellent cold flow behaviour, especially suitable for precision hydraulic systems, whose perfect function depends on hydraulic fluids with improved viscosity temperature behaviour.

Characteristics (typical figures):

| Agip ARNICA | Unit | 22 | 32 | 46 | 68 | Test method |
|--------------------|--------------------|------|------|------|------|----------------|
| Viscosity at 40°C | mm ² /s | 21,5 | 32 | 44,5 | 67,5 | ASTM D 445 |
| Viscosity at 100°C | mm ² /s | 5,2 | 6,4 | 8,3 | 11,6 | DIN 51562 T.2 |
| Viscosity index | | 175 | 163 | 164 | 162 | DIN ISO 2909 |
| Density at 15°C | kg/m ³ | 860 | 865 | 870 | 875 | ASTM D 1298 |
| Flashpoint o. C. | °C | 200 | 210 | 220 | 220 | ASTM D 92 |
| Designation | | HVLP | HVLP | HVLP | HVLP | DIN 51 524 T.3 |
| ISO-VG-grade | | 22 | 32 | 46 | 68 | |

Properties

The increased viscosity index gives **Agip ARNICA** a flat viscosity profile, thus the oil viscosity is only slightly changing at variable temperatures. Special additives guarantee optimum shear strength of the oil, that means the viscosity is not reduced also at longer service time. The improved cold flow behaviour, obvious from the Pourpoint, enlarges the application field.

Agip ARNICA is equipped with polar wear impeding components and therefore is especially suitable for high-pressure hydraulic systems, which are exposed to increased wear due to extreme loads.

Agip ARNICA protects all metal parts of the hydraulic from rust and corrosion. The particular demulsifying behaviour results in fast release of water from the oil.

Agip ARNICA has good air release properties, that causes a fast separation of the entrained air oxygen from the oil, also the formation of surface foam is effectively prevented.

Application

The application of **Agip ARNICA** instead of hydraulic oil of the standard quality is mainly recommended at controlled hydraulic systems and power transmission systems that need hydraulic fluids with a higher viscosity index for a trouble-free operation, such as instruments and precision mechanics, which only may be exposed to minor oil viscosity caused pressure changes.

Please observe the manufacturer's specifications when selecting products.

Additional physical-technical data:

| Agip ARNICA | | Unit | 22 | 32 | 46 | 68 | Test method |
|--------------------------------------------------------|----|-------------|-------|--------------|--------|--------|-----------------------|
| Pourpoint | | °C | - 33 | - 30 | - 36 | - 30 | ASTM D 97 |
| Neutral.-number (s) | | mgKOH/g | --- | 0,44 | 0,44 | 0,39 | DIN 51 558 T.1 |
| Ageing behaviour increase of NN after 1000 hours | | mgKOH/g | 0,55 | 0,50 | 0,35 | 0,70 | DIN 51 587 |
| Corr.effect on copper | | Corr. grade | | 1 - 100 A 3 | | | DIN 51 759 |
| Corr.-protection properties against steel | | Corr. grade | | 0 - A | | | DIN 51 585 proc. A |
| Water content | | g/100g | | not provable | | | DIN ISO 3733 |
| Foam Behaviour (procedure B) | | | | | | | |
| | S1 | ml | 110/0 | 20/0 | 10/0 | 180/0 | |
| | S2 | ml | 20/0 | Sp/0 | 10/0 | 30/0 | DIN 51 566 |
| | S3 | ml | 80/0 | 10/0 | 20/0 | 150/0 | |
| FZG-Test A/8,3/90 load stage | | | --- | 11 | 12 | 12 | DIN 51 354 T.2 |
| Spec. change of weight | | mg/KW | --- | < 0,27 | < 0,27 | < 0,27 | |
| Designation undissolved materials | | g/100g | | < 0,03 | | | DIN 51 592 |
| Test in the VKA proc. E:sperical cap diam. | | mm | --- | 0,64 | 0,39 | 0,39 | DIN 51 350 T.5 |

Specification

Agip ARNICA, meets or exceeds the requirements of the following specifications.

specificatie

AFNOR NF E 48603 HV

BS 4231 HSE

CETOP RP 91 H HV

DENISON HF 0

DIN 51524 PART III, HVLP

ISO-L-HV

VICKERS M-2950

AAVG,
GEPRINT:

juni '04
maandag 2 januari 2006