PRODUCT DATA SHEET

eni ARNICA

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):

eni ARNICA	Unit	22	32	46	68	Test method
Viscosity at 40°C	mm²/s	22	32	46	68	ASTM D 445
Viscosity index		157	156	150	148	DIN ISO 2909
Density at 15°C	kg/m^3	862	869	877	883	ASTM D 1298
Flashpoint o. C.	°C	204	215	224	222	ASTM D 92
Pourpoint	°C	-39	-36	-39	-39	
Designation		HVLP	HVLP	HVLP	HVLP	DIN 51 524 T.3
Demulsibility at 54 °C	min	15	15	15	15	ASTM D 1401

Properties and Performance:

The increased viscosity index gives **eni 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.

eni 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.

eni 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.

eni 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.

Applications:

The application of **eni 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.

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Additional physical-technical data:

eni ARNICA	Unit	22	32	46	68	Test method
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

Specifications:

- DIN 51 524 T.3 HVLP
- ISO 11158 HV
- Fives Cincinnati P-68 (ISO VG 32), P-69 (ISO VG 68), P-70 (ISO VG 46)
- CETOP RP 91 H HV
- AFNOR NF E 48603 HV
- BS 4231 HSE
- Commercial Hydraulics
- Linde
- AISE 127
- Danieli Standard n. 0.000.001-Rev.15 (ISO VG 46)
- Sauer Danfoss 520L0463
- Eaton Vickers I-286-S (level ISO VG 46)
- Eaton Vickers M-2950-S (level ISO VG 32, 68)
- Rexroth RD 90220-01/12.10
- ZF TE-ML 04R
- Denison HF-0 (ISO VG 46, 68)