PRODUCT DATA SHEET

Eni Arnica Extra Plus

Fast biodegradable hydraulic fluid on synthetic ester basis for all highly stressed hydraulic systems.

Characteristics (typical figures):

Eni Arnica Extra Plus	Unit	32	46	68	Test method
Kin. Viscosity at 40°C	mm²/s	32	46	68	ISO 3104
at 100°C	mm²/s	6,2	8,2	10,6	
Viscosity index		148	154	143	DIN ISO 2909
Density at 15°C	g/cm³	0,915	0,913	0,916	ISO 12185
Flashpoint CoC	°C	220	290	280	ISO 2592
Pourpoint	°C	-46	-36	-30	ISO 3016
Indication		HEES	HVLP/HEES	HEES	

Properties and Performance:

Eni Arnica Extra Plus is an environmental compatible hydraulic fluid based on selected, completely saturated, synthetic di-carbon acid ester and is, according to the method OECD-301-B, 60% disposed in 21 days. In order to guarantee a universal application it is based on the performance level of the mineral HLP-oils and complemented by the favourable viscosity grade and high viscosity index of a synthetic oil. Protection against wear and corrosion, aging stability, compatibility to elastomer, high temperature resistance and air release properties are characteristics where great importance is attached to effectively protect the pumps against cavitations and to ensure a high operating security.

Eni Arnica Extra Plus can be mixed with mineral oil and is therefore best suited for the re-oiling of tools under observation of the conversion guidelines of ISO-Norm 15380 for ester oils. Disposing can be carried out as used oil according to Waste Disposal No. 13 01 12 of the collective group 4, however the law prescribes separate storage for this collective group.

Applications:

Eni Arnica Extra Plus is a multi-purpose hydraulic fluid with a large temperature range, high viscosity index and good lubricating properties. The application field includes mobile and working hydraulics, hydraulic operating systems, also stationary systems and hydraulic drives. A noticeable extension of the oil-change-intervals is possible when handled with care. The range of application is substantially bigger than that of vegetable-oil-based lubricants.

Please observe the manufacturer's specifications when selecting products.

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Additional physical / technical data:

Eni Arnica Extra Plus	32	46	68	Test method
Corrision effect against copper	1	1	1	ISO 2160
against steel	0-A	0-A	0-A	ISO 7120
Behavior against sealing materials after 1000h at 80°C NBR1/ FPM: rel. Volume Change % Change of SHORE-A-hardness Change of Tensile strength % Elongation at brake. %	 12,4/ 1,2 -5,3/ -1,2 -8,0/ -7,5 -15,9/ 9,0	 6,4/ 1,2 -3/ -1 -15,8/ -12,8 -16/ -4,7	 9,9/ 0,9 -6,0/ -0,9 -25,6/-13,1 -29,2/ 1,5	 ISO 6072
Air release at 50°C min.	3	6	8	ISO 9120
FZG-Test A/8/90 – load level	11	12	12	DIN 51 354 T.2
Vane pump weight lost ring mg	13	< 120	< 120	DIN 51 389 T.2
Weight lost vanes mg	10	< 30	< 30	
Foaming Seq. I ml	0/0	< 30/0	< 0/0	ISO 6247
Seq. II	0/0	< 30/0	< 10/0	
Seq. III	0/0	< 20/0	< 0/0	
permitted Tank temperatures °C	≤ 100			
Short term maximum operating temperature temperature °C	≤ 150			

Specifications:

EU Ecolabel: DE/027/279

DIN ISO 15 380 HEES,
DIN 51 524 T.3 HVLP,
Swedish Standards SS15 54 34,
DIN 51 519,
ISO VG 46: Bosch Rexroth AG, CAT BF-1/BF-2, Fendt, Kramer Allrad, Palfinger, Ponsse, Sauer-Danfoss, Timberjack, Valmet/Komatsu Forest, O&K Baumaschinen.
ISO VG 68: DIN 51517 T.3 – CLP