eni ARNICA ID

PRODUCT DATA SHEET

eni ARNICA ID oils are petroleum base lubricants specially developed for use in hydraulic systems requiring fluids possessing an extremely high Viscosity Index and a very low pour point for correct operation (ISO-L-HV classification).

CHARACTERISTICS (TYPICAL FIGURES)

eni ARNICA ID		22	32	46	68
ISO VG		**22**	**32**	**46**	**68**
Appearance	-	B & C	B & C	B & C	B & C
Density at 15°C	kg/L	0.835	0.848	0.860	0.865
Viscosity at 40°C	cSt	23.8	30.6	48.0	63.6
Viscosity at 100°C	cSt	5.3	6.3	8.7	10.6
Viscosity Index	-	168	167	162	156
Flash Point, COC	°C	220	220	230	232
Pour Point	°C	-36	-30	-30	-33

PROPERTIES AND PERFORMANCES

- The extremely high Viscosity Index possessed by all grades of **eni ARNICA ID** minimizes changes in viscosity as a result of temperature variations.
- The VI improver adopted is highly resistant to operating loads, and so there is no appreciable decrease in viscosity during service.
- The low pour point of all grades permits use for a wide range of applications including those where low working temperatures are encountered.
- **eni ARNICA ID** oils have good thermal and oxidation stability thus ensuring long life of the oil.
- Their high hydrolitic stability minimizes the formation of sludges in the presence of water.
- **eni ARNICA ID** oils have good antiwear properties thus ensuring efficiency and long life of all moving parts of hydraulic circuits. Vanes and ring weight loss in the Vickers test is less than 48 mg. **eni ARNICA ID ISO VG 32** passes the 10th stage of the FZG test, while **eni ARNICA ID ISO VG 46 and 68** passes the 11^{th}.
- Their antirust properties ensure effective protection and preservation of all metallic components in the circuit.

SPECIFICATIONS

Eni ARNICA ID oils meet the requirements of the following specifications :

- ISO-L-HV
- AFNOR NF E 48603 HV
- BS 4231 HSE
- DIN 51524 teil 3 HVLP
- CETOP RP 91 H HV category
- CINCINNATI P-68, P-69 and P-70
- DENISON HF 0

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- VICKERS M-2950

APPLICATION

eni ARNICA ID oils are especially suitable as hydraulic fluid in:

- hydraulic and electro hydraulic servo controls;
- shock absorbers and other hydraulic equipment subject to wide temperature variations;
- hydraulic valve controls;
- hydraulic signalling systems;
- shipboard equipment;
- control gear of automatic hydro-electric installations.

The use of **eni ARNICA ID** oils is also recommended, as an alternative to normal hydraulic oils, for the control and power transmission systems of types of machinery which, due to design or heavy-duty operating conditions, require oils with an extremely high Viscosity Index.

In addition **eni ARNICA ID** oils are especially recommended for many delicate and precision machines and instruments where variations in braking torque caused by changes in viscosity must be contained within the closest possible limits.

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