

# eni ARNICA ZF ID

**eni ARNICA ZF ID** are ashless antiwear hydraulic oils for application in hydraulic systems where cleanliness is essential.

## CHARACTERISTICS (TYPICAL FIGURES)

### eni ARNICA ZF ID

| ISO VG            |      | 46    | 68    |
|-------------------|------|-------|-------|
| Appearance        | -    | B & C | B & C |
| Density at 15°C   | kg/L | 0.858 | 0.860 |
| Viscosity @ 40°C  | cSt  | 47.8  | 64.0  |
| Viscosity @ 100°C | cSt  | 9.1   | 11.4  |
| Viscosity Index   | -    | 175   | 174   |
| Flash Point       | °C   | 222   | 236   |
| Pour Point        | °C   | -30   | -30   |

## PROPERTIES AND PERFORMANCE

- The extremely high Viscosity Index possessed by all grades of **eni ARNICA ZF 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 ZF ID** oils have good thermal and oxidation stability thus ensuring long life of the oil.
- Their high hydrolytic stability minimizes the formation of sludges in the presence of water.
- **eni ARNICA ZF ID** oils use ashless (non zinc) hydraulic package which give excellent filterability and superior antiwear properties thus ensuring efficiency and long life of all moving parts of hydraulic circuits as shown as below:
  - Denison filterability test (dry and wet) 120 second
  - Vickers test (Vanes and ring weight loss) less than 30 mg
  - FZG test pass the 11th stage
- The addition anti seal swelling agent give excellent seal compatibility properties and prolong seal lifetime
- Their antirust properties ensure effective protection and preservation of all metallic components in the circuit.

## APPLICATIONS

**eni ARNICA ZF 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;

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- Hydraulic signaling systems;
- Shipboard equipment;
- Control gear of automatic hydro-electric installations.

The use of **eni ARNICA ZF 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 (ex. Ceramics and Steel Industry).

In addition **eni ARNICA ZF 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.

## SPECIFICATIONS

**eni ARNICA ZF ID** oils meet the requirements of the following specifications :

- ISO-L-HV
- AFNOR NF E 48603 HV
- DIN 51524 part 3 HVLP
- CINCINNATI MACHINE P-69 and P-70
- SPERRY VICKERS I-286-S