



eni ARNICA DV 46

eni ARNICA DV 46 is a special hydraulic fluid with an extremely high Viscosity Index and a very low pour point for correct operation (ISO-L-HV classification).

eni ARNICA DV 46 is a real multifunctional product, but it is particularly suitable like hydraulic fluid for use in ceramic industry presses and like a multipurpose hydraulic fluid in machine tools. It is formulated with "superior" group II mineral oil base stocks with special and selected additives with detergent/dispersant, antioxidant, antirust and antiwear properties to permit better performances and oil-change interval longer than standard mineral oils.

CHARACTERISTICS (TYPICAL FIGURES)

eni ARNICA DV 46

Viscosity at 40°C	mm ² /s	45
Viscosity at 100°C	mm ² /s	7,8
Viscosity Index	-	144
Flash Point COC	°C	237
Pour Point °C	°C	-39
Mass density at 15°C	kg/l	0,862

PROPERTIES AND PERFORMANCE

- **eni ARNICA DV 46** is designed for energy transmission in plants requiring the use of a hydraulic fluid. It also provides adequate lubrication by creating a strong lubricant film which withstands high loads between the sliding parts of high-pressure hydraulic systems.
- **eni ARNICA DV 46** is a product able to emulsify the water that has accidentally infiltrated into hydraulic circuits and in the same time to release it in the reservoir, where it can be drained off. Furthermore the detergent/dispersant properties avoid the depletion of the anticorrosion and lubrication properties of the hydraulic fluid and they hold impurities and sludges in suspension extend the interval of the filter substitution.
- **eni ARNICA DV 46** has extremely good oxidation resistance and stability even when subjected to unusually high thermal stresses; this property minimizes sludge and deposit formation, thus preventing blocking of ports, valves and controls, while guaranteeing that the oil remains properly fluid. Maintenance costs are therefore reduced and the useful service life of the oil is extended.
- The extremely high Viscosity Index possessed by AGIP ARNICA DV 46 minimises changes in viscosity throughout the normal range of operating temperatures, thus ensuring constant flow, low friction loss and good hydraulic efficiency, while protecting against the possibility of cavitation.
- 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 permits use for a wide range of applications including those where low working temperatures are encountered.
- **eni ARNICA DV 46** has good antiwear properties thus ensuring efficiency and long life of vane pump, wobble plate pump and all moving parts of hydraulic circuits.



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- Its outstanding anticorrosion and antirust properties inhibit the oxidation of internal surfaces of hydraulic circuits and therefore prevent operating difficulties and breakdown of the oil caused by metallic oxides that would otherwise form within the machinery.
- Its antifoam properties and its ready release of entrained air prevent difficulties with pumps and controls which can cause irregularities in performance and other problems arising from the compressibility of air bubbles.
- **eni ARNICA DV 46** has additional properties such as a low foaming tendency, low air release, zero aggressiveness towards copper, high temperature stability and rubber compatibility.

SPECIFICATIONS

eni ARNICA DV 46 meets the requirements of the following specification:

- ISO-L-HV
- DIN 51524 Teil 3 HVLP-D

APPLICATIONS

eni ARNICA DV 46 fluid is strongly recommended for use in ceramic industry presses.

eni ARNICA DV 46 is also recommended for use in all hydrodynamic power transmission machinery, of machine tools and in hydraulic controls and hydrostatic systems widely used in all fields of technology, such as transport, building industry, construction and mining, as well as in chemical and metallurgical machinery, marine and aviation equipment, where the use of an antiwear hydraulic fluid is necessary and in meantime there the risk of pollution from water impurities from wet environment. Due to its extremely high Viscosity Index **eni ARNICA DV 46** is 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.