



# CHALLOILS®

## **CHALLOILS Series OLEODINAMIC HVI**

*HVI hydraulic fluids of superior quality*

### **Product Description:**

mineral hydraulic oils of superior quality high viscosity index, containing anti-wear additives. By virtue of this additive they combine a high lubricating power with exceptional filterability. The careful selection of viscosity index improver additives allows a perfect maintenance of service levels.

Particularly suitable for hydraulic systems subjected to high loads and requiring both high anti-wear performance is excellent filterability, such as:

- external systems operating in the presence of strong variations in temperature (cold start and fully operating at high temperature).
- machinery operating indoor and equipped with control systems which require minimal changes in viscosity with temperature changes, such as machine tools for precision and playback machines.

The grades 32, 46 are particularly recommended as oils "multigrade" for lubrication of construction equipment and construction site employees throughout the year and particularly in variable climatic conditions. They are perfectly compatible with the seals commonly used in hydraulic systems, such as butyl-nitrile, fluorinated, polyurethane, polyester, perfluorinated. It exceeds the requirements defined by the main manufacturers of pumps and hydraulic motors, in accordance with the following specifications:

- DIN 51524/3 HVLP, ISO 11158 HV

Follow the manufacturers' recommendations with regard to the filtration and the oil change intervals. Before introducing HV, make sure your system is completely clean.

### **Features and Benefits:**

- Wide operating temperature range.
- Easy cold start.
- Highest level of protection.
- Upper Filterability even in high humidity.
- Long operating life even under severe operating conditions.
- High-quality anti-wear, oxidation resistance and excellent thermal stability.

### **Specifications and Approval:**

Exceeds requirements: **DIN 51524 Part 2 – Part 3 HVLP, ISO-L-HV**



## Typical properties:

## CHALLOILS Series OLEODINAMIC HVI

ISO Viscosity Grade	32	46	68	100
Viscosity ASTM D-445				
cSt @ 40°C	29 - 34	42 - 48	63 - 70	90 - 105
cSt @ 100°C	5,8 – 6,5	7,8 – 8,5	10 – 11,5	13,7 – 14,5
Viscosity Index ASTM D-2270	153	152	142	152
Density @ 15°C, Kg/l, ASTM D-1298	0,875	0,882	0,885	0,885
Pour Point, °C, ASTM D-97	-39	-36	-39	-24
Flash Point, °C, ASTM D-92	200	204	208	> 215
Demulsibility, min, ASTM D-1401	5	5	10	10
Anticorrosive (B), ASTM D-665	passa	-	-	-
Copper Strip Corrosion (3h a 100°C) ASTM D-130	1b	1b	1b	1b
Number of neutralization, mgKOH/g, ASTM D-974	0,22	0,22	0,22	0,22

## Health and Safety:

The data related to health, safety and environmental protection are provided in the material safety data sheets.

*The above figures are those relating to normal manufacturing tolerances and do not constitute a specification.*

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