

# HYDRAGRI 32 - 46 - 68

Hydraulic oils

## KEY DATA



- ✓ AGRICULTURE
- ✓ HYDRAULIC OILS

## SPECIFICATIONS AND APPROVALS

### International Specifications:

- ✓ AFNOR NF E48-603 HV
- ✓ ISO 6743-4 HV
- ✓ DIN 51524-3 HVLP

### Meets the requirements:

- ✓ CINCINNATI MILACRON P68/P69/P70
- ✓ DENISON HF0/HF2
- ✓ VICKERS M-2950-S/I-286-S

## APPLICATIONS

TOTAL HYDRAGRI 32 – 46 – 68 is adapted to **all hydraulic systems** working at **high temperature** and **pressure**.

This lubricant is particularly suitable for machinery working outdoors: **easy starting at very low temperatures** and steady operation **throughout the year**.

TOTAL HYDRAGRI 32 – 46 – 68 is adapted to a **very wide application range**: from use as hydraulic motion fluid to hydraulic jack fluid.

## PERFORMANCES AND CUSTOMER BENEFITS

TOTAL HYDRAGRI 32 – 46 – 68 ensures **long component life**:

- ✓ Very high viscosity index
- ✓ Excellent shear resistance
- ✓ Excellent thermal stability and outstanding oxidation resistance
- ✓ Withstands hydrolysis very well
- ✓ Very good filterability with or without water
- ✓ Excellent protection against wear, corrosion, rust and foaming
- ✓ No air retention
- ✓ Excellent de-emulsification properties
- ✓ Very low pour point
- ✓ Perfectly harmless to seals

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## PHYSICAL AND CHEMICAL CHARACTERISTICS \*

HYDRAGRI	UNIT	TEST METHOD	32	46	68
Density at 15 °C	kg/m <sup>3</sup>	ASTM D1298	870	874	882
Kinematic Viscosity at 40 °C	mm <sup>2</sup> /s	ASTM D445	32.2	46	67.5
Kinematic Viscosity at 100 °C	mm <sup>2</sup> /s	ASTM D445	6.5	8.4	11.2
Viscosity Index	-	ASTM D2270	161	161	159
Pour Point	°C	ASTM D97	-39	-39	-36

\* The features mentioned above are average values obtained with some variability in production and do not constitute a specification.

## RECOMMENDATIONS FOR USE

Before using the product, the equipment's maintenance guide should be checked. Oil changes should be carried out in accordance with the manufacturer's recommendations.

The product should not be stored at temperatures over 60°C. It should be kept away from sunlight, intense cold and extreme temperature fluctuations.

If possible, the packaging should not be exposed to the elements. Otherwise, the drums should be laid horizontally in order to avoid any contamination from water and to prevent the product's label from rubbing off.

## HEALTH, SAFETY AND THE ENVIRONMENT

Based on the toxicological information available, this product should not cause any adverse health effects, provided it is used for its intended purpose and in accordance with the recommendations laid out in the Safety Data Sheet. This can be obtained on request from your local reseller and is available for consultation at <http://sdstotalms.total.com>.

This product should not be used for any purposes other than the ones for which it is intended.