

## DESCRIPTION

Anti-wear hydraulic oils with a high viscosity index and high shear stability.

## APPLICATIONS

- VISGA range have been especially developed in order to satisfy the wide variations in temperature encountered with modern hydraulic systems.
- VISGA range are particularly recommended for all high pressure and high speed, vane, piston and gear type hydraulic pumps, and for use in all hydraulic equipments operating in extreme temperature conditions, including :
  - Remote control systems
  - Hydraulic deck machinery
  - Steering gears...

## PROPERTIES

- Excellent anti-wear properties.
- High viscosity index and high shear stability.
- Low pour point.
- Very high resistance to oxidation.
- Excellent anti-corrosion and anti-rust properties.
- Excellent water and air release properties.
- High resistance to foaming.
- Compatibility with all seals.
- Excellent resistance to hydrolysis.
- Excellent filtrability under severe applications.

## SPECIFICATIONS

These oils meet the specifications of the world's leading hydraulic equipment manufacturers NF E 48603 class HV, DIN 51 524 part 3 class HVLP, ISO 6743/4 class HV.

## CHARACTERISTICS

| CHARACTERISTICS               | METHODS  | UNITS              | VISGA     |           |           |           |           |            |            |
|-------------------------------|----------|--------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| ISO Grade                     |          |                    | <b>15</b> | <b>22</b> | <b>32</b> | <b>46</b> | <b>68</b> | <b>100</b> | <b>150</b> |
| Density at 15 °C              | ISO 3675 | kg/m <sup>3</sup>  | 855       | 864       | 870       | 876       | 882       | 886        | 890        |
| Kinematic viscosity at 40 °C  | ISO 3104 | mm <sup>2</sup> /s | 15.8      | 23        | 34        | 48        | 71        | 105        | 157        |
| Kinematic viscosity at 100 °C | ISO 3104 | mm <sup>2</sup> /s | 3.9       | 5         | 6.6       | 8.4       | 11.3      | 15.2       | 20.3       |
| Viscosity index               | ISO 2909 |                    | >150      | >150      | >150      | >150      | >150      | >150       | >150       |
| Pour Point                    | ISO 3016 | °C                 | - 42      | - 42      | - 33      | - 30      | - 27      | - 24       | - 21       |

Characteristics of this chart are indicative typical values

## *HANDLING, HEALTH AND SAFETY*

Lubricants consisting of highly refined mineral oils with specific additives.

In normal conditions of use, these lubricants present no particular toxic hazard.

All lubricants, of any kind, should always be handled with great care, particularly avoiding any contact with the skin.

Prevent any risk of splashing, and keep away from combustible materials.

Store under cover and away from any risk of contamination.

A safety data sheet complying with current legislation is available on [www. quickfds.com](http://www.quickfds.com) or [www.lubmarine.com](http://www.lubmarine.com).

The values shown above are typical values at the date of publication. TOTAL Lubmarine reserves the right to change these typical values without prior notice.



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