

# Sinova Marine HVLP 46

## Hydraulic Oil

### Product description:

Sinova Marine HVLP 46 is a high-performance anti-wear hydraulic oil derived from premium quality raffinates. Engineered to deliver exceptional protection and performance, it excels across a wide range of applications, including most mobile equipment, and operates efficiently across a broad range of ambient temperatures.

### Application:

- Industrial and mobile equipment hydraulic systems operating at high pressures and temperatures in critical applications
- Systems where cold start-up and high operating temperatures are typical
- Systems requiring a high degree of load-carrying capability and anti-wear protection
- Machines employing a wide range of components using various metallurgies

### Features & Benefits:

- Exceptional thermal and oxidation stability
- Superior wear resistance
- Enhanced corrosion protection
- Controlled demulsibility
- Excellent anti-foam properties
- Neutral to seal materials

### Typical Properties

Property	Unit	Test method	Typical value
ISO viscosity grade	-	-	46
Density at 15°C	g/cm <sup>3</sup>	ASTM D 4052	0.865
Kinematic Viscosity at 40°C	mm <sup>2</sup> /s	ASTM D 445	46.00
Kinematic Viscosity at 100°C	mm <sup>2</sup> /s	ASTM D 445	8.070
Viscosity Index	-	ASTM D 2270	148
Flash Point, COC	°C	ASTM D 92	220
Pour Point	°C	ASTM D 7346	-42
Water separability -time to 3 ml emulsion min	min	ASTM D7451	15
Oxidation Stability after 1000h/TAN increase	min	ASTM D 4310	<1.0
Copper Strip Corrosion, 3 h, 100 °C	-	ASTM D130	1
FZG EP Wear Test (A 8.3/90) Failure Load Stage	-	ASTM D 5182	12

Typical property characteristics are based on current production. Whilst future production will conform to Sinova specifications, variations in these characteristics may occur.

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### Performance claims

- DIN 51524-3 (HV)
- ISO 11158 (HV)
- Bosch Rexroth RDE 90235
- Denison HF-0/HF-1/HF-2
- Eaton E-FDGN-TB002-E
- Fives Cincinnati P70
- GB 11118.1-2011 (L-HV)
- ASTM D6158 (HV)
- GM LS 2
- AIST 126/127
- SAE MS 1004
- SEB 181222

### Health, Safety & Environment:

#### Health and Safety

This product is unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of industrial and personal hygiene are maintained.

For further guidance on Product Health & Safety refer to the appropriate Safety Data Sheet which can be obtained upon request or through our website:

[www.sinovagroup.ch](http://www.sinovagroup.ch)

#### Protect the Environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water.

### Available pack sizes:

- 20 L Canister plastic
- 30 L Canister plastic
- 200 L Drum sheet metal
- 1000 L Container

### Storage

- We recommend to store all packages under cover.
- Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings.
- Products should not be stored above 60 °C, exposed to hot sun or freezing conditions.

### Notes

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by ALCO LLC for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You

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should consult our sales specialists if you require any further information.

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