

# **INDUSTRIAL HYDRAULIC FLUID**



# Technical Data Sheet

# **TOROUE SYN HVLP**

#### PRODUCT DESCRIPTION:

Torque SYN HVLP hydraulic oils are synthetic hydraulic oils with excellent high temperature performance, high degree of shear stability and oxidation resistance. These oils are formulated to have a high viscosity index and a low pour point for use over a wider temperature range. They provide excellent wear protection and thermal stability at high temperatures to minimize deposit formation and provide long service life. They protect hydraulic system components against rust and corrosion. Torque SYN HVLP oils are formulated for very long drain interval and provide equipment protection up to three times longer than comparable conventional products.

#### APPLICATION:

- Hydraulic systems such as Numerically Controlled (NC) machines
- · Systems employing multi-metal component designs
- High pressure vane, piston and gear pumps
- Systems where cold start-up and / or very high operating

### **FEATURES & BENEFITS:**

- · Helps extend service intervals
- Helps prevent internal hydraulic system corrosion
- Helps reduce wear of components
- Helps to ensure equipment protection at cold start-up temperatures

- temperatures are typical
- In systems containing gears and bearings
- Systems requiring a high degree of loaDcarrying capability and anti-wear protection
- Helps protect system components at high operating temperatures
- Helps reduce system deposits and potential sludging
- Excellent air release

### PERFORMANCE LEVELS: Meets or Exceeds:

- DIN 51524 Part 3, Type HVLP
- Denison HF-0, HF-1, HF-2

#### TYPICAL PROPERTIES:

| PARAMETERS                              | TEST METHOD  | UNIT    | TORQUE SYN HVLP |      |       |      |
|---|--------------|---------|-----------------|------|-------|------|
| ISO VG                                  |              |         | 32              | 46   | 68    | 100  |
| Kinematic Viscosity @ 104°F /40°C       | ASTM D7042   | cSt     | 32              | 46   | 68    | 100  |
| Kinematic Viscosity @ 212°F /100°C      | ASTM D7042   | cSt     | 6.55            | 8.33 | 11.24 | 15.3 |
| Viscosity Index                         | ASTM D2270   | -       | 148             | 157  | 158   | 161  |
| SP. Gravity @15°C/60°F                  | ASTM D4052   | g/cm³   | TBR             | TBR  | TBR   | TBR  |
| Flash Point (min)                       | ASTM D92     | °C      | 236             | 251  | 260   | 260  |
| Pour Point (max)                        | ASTM D97     | °C      | -51             | -57  | -54   | -54  |
| Copper Strip Corrosion 3 hours @ 100° C | ASTM D130    | -       | 1B              | 1B   | 1B    | 1B   |
| Rust Characteristics                    | ASTM D665B   | -       | Pass            | Pass | Pass  | Pass |
| Foam Sequence I, II, III                | ASTM - D892  | ml      | 0/0             | 0/0  | 0/0   | 0/0  |
| Demulsibility, 54°C, 3ml emulsion       | ASTM - D1401 | minutes | 15              | 15   | 15    | -    |

# **HEALTH & SAFETY, ENVIRONMENT:**

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point. For further Information on Safety Guidelines please refer to MSDS available on our website www.lubrex.net

# **HEALTH & SAFETY:**

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office or via the internet wavelulbrexnet

### PROTECT THE ENVIRONMENT:

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

#### STORAGE:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above  $60^{\circ}$ C, exposed to hot sun or freezing conditions.

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