

# **ADVANCED LUBRICATION TECHNOLOGY, INC.**

## **TECHNICAL BULLETIN**

### **HYDRAULIC FLUID**

#### **DESCRIPTION:** LSCL

LubriSilk<sup>®</sup> LSHF- 46 is an ashless, multifunctional hydraulic fluid suitable for most applications where biodegradability, and performance are required.

- Contains no Zinc or other heavy metals.
- Extended oil life and pump durability.
- Anti-wear and EP performance
- Filterability and Demulsibility
- Excellent thermal and oxidation stability.
- Compatible with most other hydraulic fluids.
- Biodegradable.

#### **USAGE:**

Use in any application calling for multifunctional hydraulic fluid in a one-for-replacement.

#### **APPLICATIONS:**

Use in any application calling for multifunctional hydraulic fluid where biodegradability, and performance are required.

#### **SPECIFICATIONS:**

- Contains no Zinc or other heavy metals.
- Extended oil life and pump durability.
- Anti-wear and EP performance
- Filterability and Demulsibility
- Excellent thermal and oxidation stability.
- Compatible with most other hydraulic fluids.
- Biodegradable.

**TEST RESULTS: METHOD RESULTS**

**Copper Corrosion:** D-130.....1B

**Steel Corrosion:** D- 665 A, B.....Pass

**Demulsability:** D-1401.....40-40-0 (15)

Foam: D-892

Sequence I.....0/0

Sequence II.....0/0

Sequence III.....20/0

**Thermal Stability:** D-2070

Appearance of copper rod.....6

Appearance of steel rod.....2

Sludge, mg/100mL.....2.8

**Hydrolytic Stability:** D-2619

Copper wt. loss mg/cm2 .....0.034

TAN, Water layer.....3.7

**Filtration:** Denison

Time to filter dry, s165

Time to filter , 2% water, s244

**Wear, four ball , scar, mm:** D-4172

Condition-40kg, 1800 rpm,130F, 1hr..0.40

**Oxidation, hr.:** D-943.....7600

Oxidation, 1000 hr.D-4310

Cu, mg10.7

Fe, mg.<1

**Total Sludge, mg.**24.6

**EP, Four Ball:** D-2783

LWI.....33.95

Weld Load, kg. ....126

**Vane PumpD-2882**

Vane and Ring loss, mg.....<1

**PROPERTIES:**

- ISO VG: ASTM D-24.....2232/46
- SAE GRADE.....5W-20
- VISCOSITY INDEX:  
    ASTM D-2270.....187
- SPECIFIC GRAVITY:  
    ASTM D-129.....8.918
- FLASH POINTASTM-D92310 C.
- FIRE POINT:  
    ASTM D-92.....>350 C.
- POUR POINT:  
    ASTM D-97.....-45 C.
- BIODEGRADABILITY:  
    CEC L-33-T-82.....80
- DILECTRIC STRENGTH:  
    ASTM D-877.....48kV

**PACKAGING:**

5-GAL PAILS, 55-GAL DRUMS – Other packaging is available.