### Indol<sup>®</sup> NZ



### Non-Zinc, Anti-Wear, Multi-Grade Hydraulic Oil ISO 46 MV

### **General Description**

Indol<sup>®</sup> NZ is a premium quality non-zinc ashless multi-grade, anti-wear 46 MV hydraulic oil. It is designed to exceed the performance requirements of major pump and equipment builders that require the use of a non-zinc hydraulic oil.

This oil is specially formulated with the highest quality HCG-2 base oils and has outstanding oxidation and thermal stability. The addition of the uniquely balanced non-zinc additive system provides total anti-wear, oxidation, thermal and hydrolytic stability along with rust corrosion, demulsifying capabilities and anti-foam protection.

Indol NZ ISO 46 MV is a multi-viscosity oil formulated with an extremely shear stable viscosity modifier. It provides exceptional low temperature properties enabling performance over a wide range of startup and operating temperatures, which improves hydraulic efficiency and machine productivity.

The mixing of any non-zinc hydraulic oil with hydraulic oils containing zinc or calcium should be avoided. There have been industry concerns about possible incompatibility, filter plugging and deposits.

A complete system drain of zinc-free fluid and filter change is required before any zinc containing fluid can be added or used.

#### **Features and Benefits**

- Wear Protection: The non-zinc anti-wear technology provides exceptional film strength resulting in longer pump life caused by minimizing wear in high speed, high pressure vane, gear and piston pumps using various metallurgies.
- Oxidation Control: Excellent oxidation and thermal stability reduces sludge, varnish and carbon deposits providing protection of critical hydraulic components while extending oil and equipment life.
- **Filterability:** Superior hydrolytic stability with quick water separation provides protection against deposits and filter plugging.
- **Rust and Corrosion Protection:** Outstanding rust and corrosion prevention in the presence of moisture.
- Foam Control: A balanced anti-foam system promotes rapid air release and minimizes foam.

- Viscosity Stability: The outstanding shear stability provides exceptional viscosity control resulting in consistent operation throughout a wide temperature range.
- **Reserve Quality:** Ability to maximize oil life and equipment performance under the toughest operating conditions.
- Environmental Impact: Indol NZ can help reduce environmental impact and should be considered for environmentally sensitive areas. It does not contain heavy metals which have the potential for water or soil contamination.

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### **Typical Applications**

- Denison HF-0 (Hybrid Pump), HF-1, HF-2
- Cincinnati Lamb P-70
- Bosch- Rexroth RE 90220
- Eaton Vickers (35VQ25) I-286-S, M2950-S
- USS 127, AFNOR 48-603
- DIN 51524 HVLP, Part 2/3,
- GM LS-2, LH-0402
- ASTM D-943 Oxidation Test: > 8000 Hrs

### **Typical Properties**

#### **ISO Viscosity Grade** 46 MV Approximate SAE Grade 5W-20 API Gravity/Lbs gallon 31.4 / 7.23 232 / 448 Flash Point, °C /°F Viscosity @ 100°C, cSt 8.4 @ 40°C, cSt 47.3 Viscosity Index 155 Pour Point, °C /°F -48/-54 Brookfield @ -35 °C, cp 20,000 MRV@ -35 °C, cp 20,500 FZG gear test, stages 12 Pass D-665A/B Rust Test Pass D-130 Copper Protection Pass Foam Seq. I, II, III Dielectric Strength, KV 40\*

**Typical Customers** 

temperature range.

Owners and Operators of:

Mobile/Industrial hydraulic systems calling for a

· Hydraulic systems that would benefit from a multi-

non-zinc, ashless, anti-wear hydraulic oil.

grade non-zinc oil with a wide operating

\*Dielectric Strength only in new sealed drums and 5 gallon containers from CHS Lubricant manufacturing plants.

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

#### Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or visit cenex.com/sds-library.

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