



# S-OIL SEVEN GEAR TO-4

**HIGH PERFORMANCE LUBRICANTS FOR OFF HIGHWAY EQUIPMENTS & HYDRAULIC SYSTEM**

## Product Description

S-OIL SEVEN GEAR TO-4 is high performance lubricants which is formulated with very stable base oil and advanced additive technology for reliable operation of heavy-duty equipment. It can be used when manufacturer recommends a lubricant meeting the Caterpillar TO-4, Allison C-4, Komatsu and other off highway equipment requirement.

## Applications

- Heavy-duty off highway equipment's power shift, final drive, wet brake and hydraulic system
- Heavy-duty diesel engine oil requiring API CF/CF-2
- Other applications where manufacturers recommends a fluid meeting Caterpillar TO-4/TO-4M, Allison C4 specification

## Features and Potential Benefits

- Excellent low temperature fluidity provides smooth start up performance and hardware protection in cold condition
- Maximized oil life from very good oxidation stability, resistance of sludge, varnish and deposit formation
- Latest corrosion inhibitor reduces maintenance cost by providing reliable protection of critical part in heavy-duty equipment
- It doesn't contain viscosity index improver made from polymer, so it provides consistent film thickness
- Proven anti-wear performance provides extreme protection characteristics over Caterpillar TO-4 requirement
- It provides optimized friction properties, so operator can feel comfortable and reliable

## Performance Level

- Caterpillar TO-4/TO-4M
- Allison C4
- API MT-1
- ZF TE-ML-03C/07F
- Komatsu KES 07.861.1
- API CF/CF-2

## Typical Properties

| Test Items  |       | Method     | Unit | 10W    | 30     | 40     | 50     |
|-------------|-------|------------|------|--------|--------|--------|--------|
| SG          |       | ASTM D1298 | -    | 0.8810 | 0.8913 | 0.8968 | 0.8991 |
| Viscosity   | 40°C  | ASTM D445  | cSt  | 38.43  | 93.69  | 144.5  | 205.0  |
|             | 100°C | ASTM D445  | cSt  | 6.214  | 11.13  | 14.42  | 18.15  |
| VI          |       | ASTM D2270 | -    | 109    | 105    | 98     | 97     |
| Flash Point |       | ASTM D92   | °C   | 228    | 260    | 262    | 268    |
| Pour Point  |       | ASTM D97   | °C   | -32    | -26    | -21    | -18    |

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This lubricant used recommended and for the application for which it has been designed does not present any particular risk.  
 A material safety data sheet is obtainable via your commercial adviser.