

Product Data Sheet



HB-1146 TO-4 DRIVE TRAIN OIL

10, 30, 50, 60

DESCRIPTION:

HB-1146 TO-4 DRIVE TRAIN OILS are formulated to meet the performance requirements of Caterpillar Specification TO-4 and Allison C-4 for transmissions, final drives, and hydraulic systems. This product is manufactured from selected, highly refined base stocks and compounded with additives to enhance oxidation and heat resistance, specified friction control, cleanliness, load-carrying ability, corrosion and wear protection, and low foam tendency & also has good detergent-dispersant characteristics.

APPLICATIONS:

In normal operations the products are designed to meet those applications requiring an SAE 10W primarily for hydraulic systems, viscosity grade SAE 30 for transmissions, and SAE 50 and SAE 60 for final drives. They are also suggested for heavy-duty truck automatic transmissions requiring fluids meeting SAE 10W or SAE 30 viscosity characteristics. They should not be used for crankcase motor oil applications or those transmission systems where low brake/clutch chatter is a requirement.

H & B Industries, Inc.

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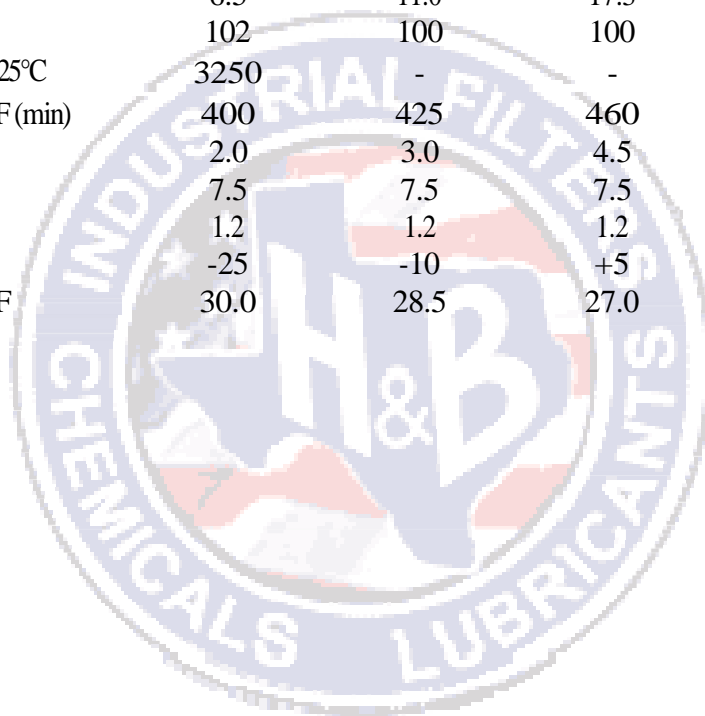
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Typical Properties

| SAE Grade Automotive | SAE 10W | SAE 30 | SAE 50 | SAE 60 |
|----------------------------------|---------|--------|--------|--------|
| Viscosity, cSt | | | | |
| At 40 C | 42.7 | 95.2 | 185.2 | 311.2 |
| At 100 C | 6.5 | 11.0 | 17.3 | 24.5 |
| Viscosity Index | 102 | 100 | 100 | 100 |
| Viscosity, Cold Crank Sim, -25°C | 3250 | - | - | - |
| Flash Point, (COC) Deg F (min) | 400 | 425 | 460 | 475 |
| Color, ASTM | 2.0 | 3.0 | 4.5 | 4.5 |
| TBN | 7.5 | 7.5 | 7.5 | 7.5 |
| Sulfated Ash, % | 1.2 | 1.2 | 1.2 | 1.2 |
| Pour Point, Deg F | -25 | -10 | +5 | +10 |
| Gravity, API @ 60 F | 30.0 | 28.5 | 27.0 | 26.5 |



The values shown are typical of current production. Some are controlled in the manufacturing process, while others are not. All of them may vary within tolerable ranges.

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