

# Product Data Sheet



*Premium Lubricant Products, Optimal Lubricant Performance, Professional Staff & Service*

## **HB-1146 TO-4 DRIVE TRAIN OIL** **0, 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.

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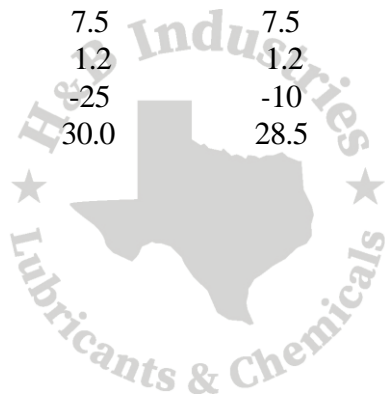
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## Typical Properties

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



Typical Characteristics are those obtained with normal tolerance of production and no constitute a specification.

Variations that do not affect the performance of the product during the normal manufacturing process.

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