



**beacon**  
**lubricants** INC

P.O. Box 754,  
Edinboro, PA 16412-0754  
sales@beaconlubricants.com

toll free: (877) 734-7334  
phone: (814) 734-7535  
fax: (814) 734-3460

technical data sheet

## Signal Tech Heavy Duty Diesel Engine Oils – 5w30, 5w40, 0w40, 0w30

### Product Application:

Signal Tech Heavy Duty Diesel Engine Oils is a line of premium performance multigrade diesel engine oils that deliver an industry leading protection against increased wear which can lead to lower productivity and impaired fuel economy. They're formulated to exceed API CK-4, CJ-4, CI-4, CI-4 Plus and older. The product is particularly suitable for use in emission compliant engines that utilize heavy EGR and exhaust after-treatment devices such as Diesel Particulate Filters (DPFs\_ with or without Diesel Oxidation Catalysts (DOCs) and Selective Catalytic Reduction (SCR). Signal Tech Heavy Duty Diesel Engine Oils provide advanced performance in low-emission certified diesel engines that are equipped with EGR, older non-EGR containing diesel engines, and off-highway diesel engines.

#### 5w30

Is an Ultra High Performance full synthetic heavy duty engine oil that provides excellent protections and is recommended for use in older engines where SAE 5W30 is recommended as well as off-highway or construction vehicles.

#### 5w40

Is an Ultra High Performance full synthetic heavy duty engine oil that provides excellent protections and performance, especially in low temperature environments. It helps conserve energy and reduces engine wear through ease of cold weather start-up and lower viscous drag.

#### 0w40

Is an Ultra High Performance heavy duty engine oil specially formulated with a high performance additive system in combination with high quality synthetic base oils. May be used in extended oil drain interval service in extreme cold weather.

#### 0w30

Is formulated with extreme cold service in mind. It is an Ultra High Performance heavy duty engine oil with top performance additives and high quality synthetic base oils that can help users extended oil drain intervals.

### Features and Advantages:

- \*Ultimate wear protection
- \*Maintains shear stability
- \*Reduced oxidative thickening
- \*Reduced valve train wear
- \*Reduced piston deposits
- \*Corrosion protection
- \*Reduced oil consumption
- \*Advanced soot control
- \*Emission system friendly



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### Package Size:

Bulk, Drums, Pails

### Meets or Exceeds the following Specifications:

	<b>5w30</b>	<b>5w40</b>	<b>0w40</b>	<b>0w30</b>
API CK4	X	X	X	X
CAT ECF-2	X	X	X	X
TO-2				
Cummins CES 20086	X	X	X	X
JASO MA2	X	X	X	X
DH1	X	X	X	X
DH2	X	X	X	X

### Typical Characteristics:

	<b><u>5w30</u></b>	<b><u>5w-40</u></b>	<b><u>0w40</u></b>	<b><u>0w30</u></b>
SAE Grade				
Viscosity, ASTM D 445				
cSt @ 40°C	72.5	102	82	65.2
cSt @ 100°C	12.1	14.8	15.4	11.5
Flash Point °C ASTM D 92	225	226	224	220
Viscosity Index, ASTM D 2270	172	168	180	173
Sulfated Ash, wt%, ASTM D 874	1.35	1.35	1.0	1.0
Total Base #, mg KOH/g, ASTM D 2896	12	12	9.5	9.7
Pour Point, °C, ASTM D97	-45	-45	-45	-45