



**beacon**  
**lubricants** INC

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technical data sheet

## Beacon Signal All Fleet Motor Oils – 10w, 20w, 30w, 40w, 50w

### Product Application:

Beacon Signal All Fleet Motor Oils are premium, high performance extended life oils, formulated from advanced technology base oils and a balanced additive system. Signal All Fleet Motor Oils meet the requirements of all power shift transmissions requiring TO-2 or C3/C4 fluids and may also be used for manual transmissions and hydraulic systems where motor oils are recommended.

### Features and Advantages:

- \*Excellent protection against oil thickening, high temperature deposits, sludge build-up, oil degradation and corrosion.
- \*Extended TBN Reserve
- \*Prolonged engine life
- \*Less wear
- \*Excellent protection against ring sticking

### Package Size:

Bulk, Drums, Pails

### Meets or Exceeds the following Specifications:

	10w	20w	30w	40w	50w
Detroit Diesel 7SE 270		X	X	X	X
Caterpillar 20:1 TBN, CD/TO-2	X	X			
MIL-L-2104E, MIL-L-46152D	X	X	X	X	X
Navistar			X		
Allison C-4			X		
CAT 1K			X	X	
Mack EO-K/2			X		
API Service CF, SF, CD-II and CD	X	X	X	X	X
JASO DH-1		X	X	X	
MTU OIL CATEGORY 2		X	X	X	
MB- 228.2			X	X	
MAN 270			X	X	
ZF TE-ML 04B			X	X	
API CF/SF	X	X	X	X	X
ACEA E2			X	X	

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#### Typical Characteristics:

	<b>10w</b>	<b>20w</b>	<b>30w</b>	<b>40w</b>	<b>50w</b>
Viscosity Index, ASTM D 2270	120	120	115	115	112
Viscosity, ASTM D 445					
cSt @ 100 °C	6.5	8.0	12.0	14.5	19.5
cSt @ 40 °C	38	55	100	138	202
TBN, mg KOH/g, ASTM D 2896	12	12	12	12	12
Sulfated Ash, wt%, ASTM D 874	1.3	1.3	1.3	1.3	1.3
Pour Point, °C, ASTM D 97	-30	-30	-30	-30	-30
Flash Point, °C, ASTM D 92	210	220	230	240	250
Color, ASTM	8.0	8.0	8.0	8.0	8.0
Density @ 15°C kg/l, ASTM D 4052	0.882	0.886	0.889	0.892	0.896

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