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

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| 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.

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| Features and Advatages: |

\*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

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| Package Size: |

Bulk, Drums, Pails

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| 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:  |

 **10w 20w 30w 40w 50w**

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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