



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 All Fleet 10w-30 & 15w-40 Motor Oil

Product Application:

Signal All Fleet 10w-30 and 15w-40 are semi-synthetic ultra-high performance heavy duty, extended life diesel engine oil formulated to deliver exceptional performance in both modern, high output engines including those with (EGR) exhaust gas recirculation and after treatment systems with (DPF's) diesel particulate filters and (DOCs) diesel oxidation catalysts recirculation, as well providing for excellent lubrication in older "traditional" engines operating on low & high sulfur and bio-fuels.

Signal Fleet All Fleet 10w-30 & 15w-40 incorporates the most current select base stocks and advanced additive chemistry that controls soot buildup in combustion chambers while providing outstanding oxidation, corrosion, and wear protection throughout the engine.

Features and Advantages:

- *Extended life product, long drain capability
- *Excellent chemical and shear stability
- *Excellent low temperature pump ability while maintaining high temperature viscosity
- *Outstanding thermal and oxidation stability

Package Size:

Bulk, Drums, Pails

Meets or Exceeds the following Specifications:

10w30

API Service Classifications CK-4/CJ-4; Military Specification MIL-PRF-2104K; ACEA E7- 16; ACEA E9-16; Global Specification DHD-1; Caterpillar ECF-3; Cummins CES 20081, CES 20086; Detroit Diesel Power Guard Oil Specifications: DDC93K218 and DDC93K222; Deutz DQC III-10 LA; Ford WSS-M2C171-E, WSS-M2C171-F1; JASO DH-2; Mack EO-O Premium Plus, Mack EOS-4.5; MAN 3275, MAN 3575; MB 228.3; MB 228.31; MTU Type Category 2 and 2.1; Renault VI RLD-3, RLD-4; Scania LDF-2; Volvo VDS 4, VDS 4.5; Navistar; John Deere; CHN (Case-New Holland).

15w40

API Service Classifications CK-4/CJ-4; Military Specification MIL-PRF2104K; ACEA E7-16; ACEA E9-16; Global Specification DHD-1; Caterpillar ECF-3; Cummins CES 20081, CES 20086; Detroit Diesel Power Guard Oil Specifications: DDC93K218 and DDC93K222; Deutz DQC III-10 LA; Ford WSS-M2C171-E, WSS-M2C171-F1; JASO DH-2; Mack EO-O Premium Plus, Mack EOS4.5; MAN 3275, MAN 3575; MB 228.3; MB 228.31; MTU Category Type 2 and 2.1; Renault VI RLD-3, RLD-4; Scania LDF-2; Volvo VDS 4, VDS 4.5; Navistar; John Deere; CHN (Case-New Holland).

Visit us at – www.beaconlubricants.com

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Typical Characteristics:

	<u>10w-30</u>	<u>15w-40</u>
Viscosity, ASTM D 445		
cSt @ 40°	80	112
cSt @ 100°	12.2	15.2
Viscosity Index, ASTM D 2270	146	142
Sulfated Ash, wt%, ASTM D 874	1.0	1.0
Total Base Number, mg KOH/g, ASTM D 2896	10.6	10.6
Pour Point, °C, ASTM D 97	-38	-37
Flash Point, °C, ASTM D 92	230	241
Density @ 15 °C kg/l, ASTM D 4052	0.839	0.872