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

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| 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 educes 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.

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| 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

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| Meets or Exceeds the following Specifications: |

**5w30** **5w40 0w40 0w30**

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

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| Typical Characteristics: |

SAE Grade **5w30** **5w-40 0w40 0w30**

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