

ENGINE OILS

HiTEC[®] 11145

Passenger Car Engine Oil Additive



Delivering Optimum Protection for the Latest TGDl Engine Designs

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Application

HiTEC® 11145 is a new additive technology formulated to exceed the performance requirements of the current ILSAC GF-5 specification and address the enhanced performance demands of the latest turbocharged gasoline direct injection (TGDI) engine designs. These engines represent a more severe application for the lubricant in terms of the wear and deposit control and also have the potential for severe engine damage as a result of combustion pre-ignition. The current ILSAC GF-5 quality oils in the market may not adequately address all of these new performance demands and HiTEC® 11145 has been developed specifically to provide enhanced performance for TGDI designs.

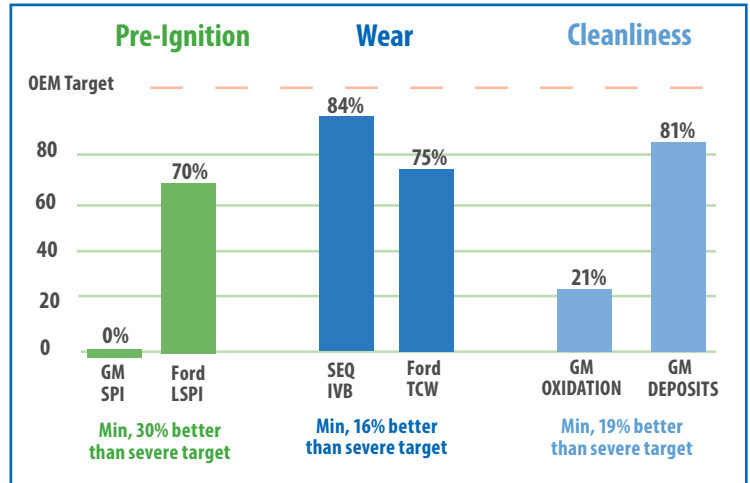
HiTEC® 11145 continues to fully meet the licensed requirements of both ILSAC GF-5 and API SN specifications. For specific details of the range of licensed formulations that can be supported with this technology platform, please contact your Afton Chemical representative.

Recommended Dosage

HiTEC® 11145 is used at 8.5% wt. to formulate all recommended grades. Please contact your Afton Chemical representative for specific formulation recommendations.

Key Performance Benefits

- Fully meets the license and approval requirements of the ILSAC GF-5 and API SN specifications in all applicable viscosity grades and a wide range of industry basestocks
- Delivers enhanced performance in the areas of wear, cleanliness and fuel economy in the latest TGDI engine designs and protects against the potential for pre-ignition in these engines



Typical Characteristics

| | |
|--------------------------------|---------------------------|
| Appearance | Dark brown viscous liquid |
| Specific Gravity @ 15.6/15.6°C | 0.973 |
| Density, lb/gal. | 8.10 |
| Viscosity @ 100°C, cSt | 83 |
| TBN, mgKOH/g | 86 |
| Flash Point, °C (PMCC) | 135 min. |

Handling Information

Max Handling Temp: 70°C
Shelf Life: 3 months @ 50°C, 36 months @ ambient (10-40°C)