

COMPONENTS

HiTEC[®] 5777D

Dispersant Olefin Copolymer VI Improver



Provides Superior Protection Against Soot-related Wear
and Oil Thickening

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Provides Superior Protection Against Soot-related Wear and Oil Thickening

Application

HiTEC® 5777D, a dispersant olefin copolymer viscosity index improver, demonstrates unique performance in today's diesel engines. It provides superior protection against soot-related wear and oil thickening. HiTEC® 5777D prevents wear through two independent mechanisms. First, it is more shear stable than most conventional viscosity index improvers, maintaining its original formulated properties. This makes it more capable of protecting moving parts from abrasive soot particles. Second, it forms a protective film on metal surfaces under pressure, a feat which non-dispersant viscosity index improvers cannot accomplish. This film, which is different from the film created by normal antiwear additives, remains durable even in the presence of soot.

Key Performance Benefits

- Offers dispersancy performance in both gasoline and diesel engines
- Excellent shear stability capable of meeting European requirements
- Excellent engine cleanliness in field testing (see oil pans image)
- Easier Handling

Recommended Dosage

Dosages of HiTEC® 5777D dispersant olefin copolymer viscosity index improver generally recommended to meet the 10 hour L-38 stay-in-grade requirements are given below with ACEA (CEC L-14) recommendations in parentheses:

SAE Grade	5W30	10W30	10W40	15W40	20W50
HiTEC® 5777D (vol.)	10.8% (11.5%)	8.0% (8.2%)	12.4% (12.9%)	9.4% (10.6%)	8.2% (8.8%)

Please contact your Afton Chemical representative for specific recommendations.

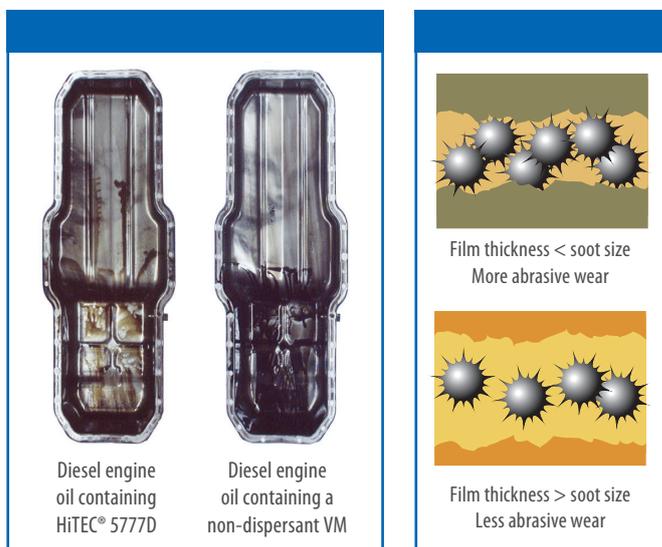
Typical Characteristics

Appearance	Clear to slightly hazy brown viscous liquid
Density, lbs/gal.	7.24
Specific Gravity @ 15.6/15.6°C	0.855
Viscosity @ 100°C, cSt	600
Flash Point, °C (PMCC)	135 min.
Thickening Power (TP), cSt @ 100° C	6.1

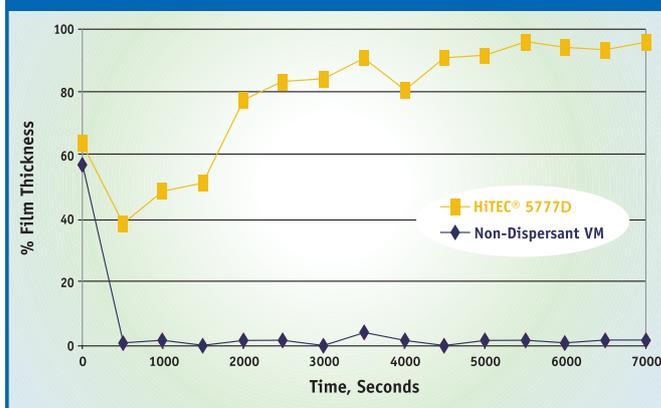
Handling Information

Max Handling Temp: 250°F (120°C)

Shelf Life: 36 months @ ambient temperature



Film Thickness HiTEC® 5777D vs NDVM
HiTEC® 5777D exhibits excellent engine cleanliness in field testing.



Mack T-11 Viscosity Increase
HiTEC® 5777D demonstrates unparalleled viscosity control in Mack T-11 test in both Group 1 and Group II base stocks.

