

ENGINE OILS

HiTEC[®] 12360 **HDEO Additive Package**



Made For Asia Pacific Top Tier Heavy Duty Engine Oil Additive

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Application

HiTEC® 12360 additive is a Made for Asia Pacific product, uniting top tier performance from Europe, the Americas and Japan all in one pack. HiTEC® 12360 covers ACEA E6, API CK-4, JASO DH-2 and key OEM's in a SAE 5W-30, 10W-40 and 15W-40 formulation at a low treat rate of 16.1%.

- Less planned time off the road**
 HiTEC® 12360's top tier specifications allow for lengthening ODIs. E.g. use of MB 228.51 oil versus MB 228.31 oil across a fleet of 100 trucks, driving 129k km* per year average can save 120 days down time in oil changes over a 3-year period**.
- Assists in emission reductions**
 HiTEC® 12360 contains 1% ash content so it is compatible with after treatment devices fitted to today's modern trucks to meet emission targets and legislation.
- Reduction in everyday running costs**
 OEMs are looking to lubricants to help contribute to overall fuel efficiency and as such require lower viscosity oils. HiTEC® 12360 covers 5W-30 and 10W-40, as well as traditional 15W-40 viscosity grades.
- Key North American and European Industry & OEM specifications coverage**
 HiTEC® 12360 unites top tier performance from Europe and North America in one pack with API CK-4, API FA-4, ACEA E6-16 and ACEA E8-22 coverage. It also has Volvo approval and is targeting MAN approval, which are important to some key Chinese OEMs due to their technology partnerships.

*Source: Kline

**Based on average drain interval of 100k km for MB 228.31 and 150k km for MB 228.51

Recommended Dosage

HiTEC® 12360 has a highly competitive treat rate at 16.1%, uses HiTEC® 5748 25SSI viscosity modifier and is Made In Asia to deliver lead time and working capital benefits.

Typical Characteristics

Density at 15°C, g/ml:	0.951
Flash point, °C (PMCC):	150
Kinematic Viscosity at 100°C, mm ² /s:	133
Total Base Number, mg KOH/g	61

Handling Information

Max Handling Temp: 70°C
 Shelf Life: 24 months at ambient temperature

HiTEC® 12360 @ 16.1% wt		Approvals																
SAE Grade	Performance Category	API CK-4	API FA-4	API CJ-4	ACEA E6-16	ACEA E9-16	ACEA E8-22	ACEA E11-22	ACEA E4-22 [^]	ACEA E7-22 [^]	JASO DH-2	Volvo VDS4.5	Cummins CES 20086	Deere/Detroit Diesel/DDC93K222	Mantrac EDS-4.5	Renault RLD-3	MB 228.31	MB 228.51 ^{>}
SAE 5W-30	GP III	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SAE 10W-30	GP II	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SAE 10W-40	GP II/III	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
SAE 15W-40	GP II	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

[^] Requires booster. E4/E7 have different formulations from E6/E9, E8/E11.

[@] 10W-30 E6/E8 requires full Group III

[>] MB 228.5 requires booster HiTEC® 611

