

ENGINE OILS

HiTEC[®] 9450

Passenger Car Engine Oil Additive Package



Reduced SAPs Top Tier Additive Technology, meeting the requirements of ACEA 2021 specifications



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Key Performance Benefits

HiTEC® 9450 engine oil additive is specially designed for use in catalyst compatible oils. These particular oils are used in light duty vehicles fitted with after-treatment systems, gasoline catalytic converter, and diesel particulate filter technology.

Upgraded to ACEA 2021 and MB 229.31 (V2019.1), with no changes needed to formulations, componentry or treat rates; HiTEC® 9450 has demonstrated its future proof credentials being able to meet the new ACEA C5 specification.

The two key performance benefits from HiTEC® 9450

- **Strong Fuel Economy Performance:** HiTEC® 9450 meets ACEA C5
- **Excellent Engine Durability:** HiTEC® 9450 delivers reserve performance in 3 key areas needed for durability; wear protection, sludge control and engine cleanliness.

HiTEC® 9450 specification coverage fits the needs of independent workshops and end users looking for a cost-effective engine oil for out of warranty vehicles. With a growing diesel vehicle parc now outside of warranty, HiTEC® 9450 is the right additive technology offering engine durability relevant to workshops and fuel economy relevant to consumers.

HiTEC® 9450 also fits the needs of in-warranty engine oils when a OEM workshop uses an ACEA standard oil as an alternative, following OEM handbook recommendations.

Recommended Dosage

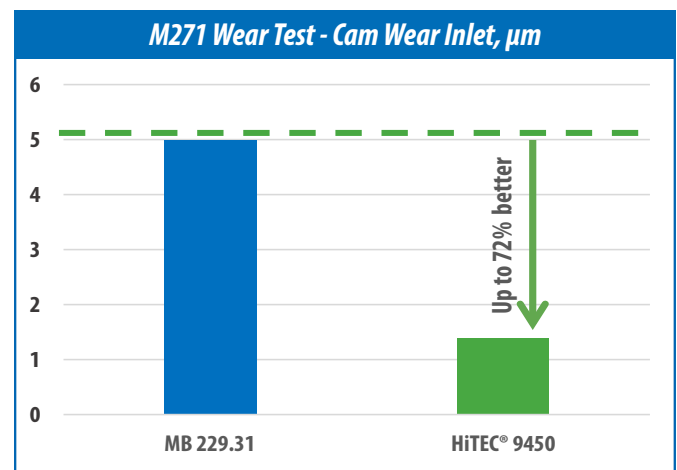
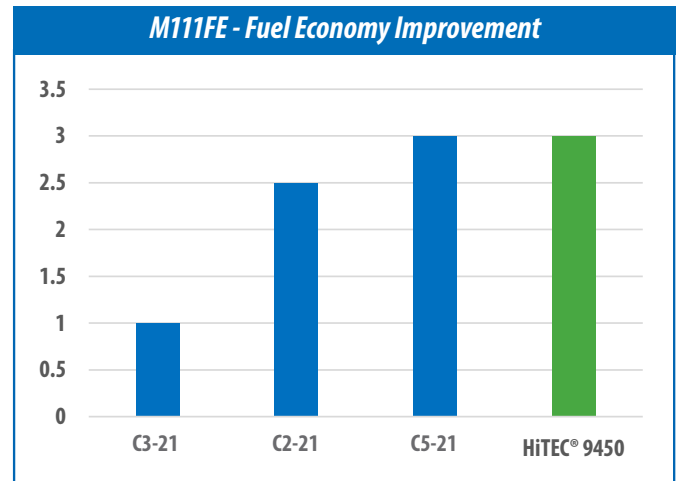
The recommended treat-rate for HiTEC® 9450 is 12.40% wt. for ACEA C5/C3/C2-21, API SN and MB 229.31.

Typical Characteristics

| | |
|---|----------------------|
| Appearance: | Brown Viscous Liquid |
| Density at 15°C, g/ml: | 0.954 |
| Flash Point, °C (PMCC): | 135 min. |
| Kinematic Viscosity at 100°C, mm ² /s: | 139 |
| Total Base Number, mg KOH/g: | 62 |

Handling Information

Recommended Storage and Handling Temperature: 55-60°C
 Maximum Blending and Handling Temperature: 65°C
 Maximum Long Term Storage Temperature: 60°C
 Shelf Life, 24 months at ambient (10-40°C)



| HiTEC® 9450 | Approvals | | | | | |
|-------------|-----------|------------|------------|------------|-----------|---|
| | API SN | ACEA C5-21 | ACEA C3-21 | ACEA C2-21 | MB 229.31 | |
| 12.4% | SAE 0W-20 | Grp III | ● | ● | | |
| 12.4% | SAE 0W-20 | Grp III | ● | | ● | |
| 12.4% | SAE 5W-20 | Grp III | ● | | ● | |
| 12.4% | SAE 5W-30 | Grp III | ● | ● | ● | ● |

- * API SP licensable
- * Hyundai diesel cars with DPF using an SAE 5W-30 engine oil requiring ACEA C2/C3
- * Kia diesel cars with DPF requiring ACEA C2/C3 and API CH-4 or higher
- * Subaru diesel requiring ACEA C2/C3
- * Suzuki Grand Vitara (diesel) engines requiring ACEA C3 & Swift, SX-4 Classic, SX-4 Cross engines and Vitara requiring ACEA C2
- * Toyota diesel engines with DPF requiring an SAE 5W-30 engine oil at the ACEA C2

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