

ENGINE OILS

HiTEC[®] 9490

Passenger Car Engine Oil Additive Package



Full SAPS Additive Technology, meeting the requirements of ACEA 2016 and major OEM specifications

The Right Move to **Quality and Efficiency**



HiTEC® 9490 Passenger Car Engine Oil Additive Package

Full SAPS Additive Technology, meeting the requirements of ACEA 2016 and major OEM specifications
The Right Move to **Quality and Efficiency**

Key Performance Benefits

HiTEC® 9490 is the right move if you want to deliver **Quality** and **Efficiency** in your normal SAPS passenger car lubricant portfolio. It delivers efficiency through a simple cascadable formulation and a core viscosity modifier that enables flexibility to blend a range of final oils. It delivers quality through its key performance benefits that have been demonstrated through field trials and engine testing:

- **Engine protection:** protection against wear and piston deposits and keeps engine parts working efficiently for longer
- **Performance reserve:** control of additive depletion gives extended drain capability for a cost-effective solution

Upgraded to ACEA 2016 and recent OEM specifications, using the same or optimised formulations, componentry or treat rates; HiTEC® 9490 has also demonstrated its relevance to modern turbocharged direct injection engines and to the growing use of biofuels.

HiTEC® 9490 simple cascade addresses the large 5W-XX market and provides cost-effective 10W-40 and Group II solutions for older gasoline and diesel vehicles (no DPF). Cover the needs of 40% of the European and 25% of the EMEA Passenger Cars markets.

Typical Characteristics

Appearance:	Dark Brown Hazy Liquid
Density at 15°C, g/ml:	0.974
FI◇ash Point, °C (PMCC):	135 min.
Kinematic Viscosity at 100°C, mm²/s:	166.9
Total Base Number, mg KOH/g:	81

Profile and Recommended Dosage

		ACEA A1/B1-12	ACEA A3/B3-16	ACEA A3/B4-16	ACEA A5/B5-16	API SL/CF	API SN/CF	JASO MA2 (1903:2016)	MB 226.5 (v2016.1)	MB 229.1 (v2012.2)	MB 229.3 (v2012.2)	MB 229.3 (v2016.1)	MB 229.3 (v2019.1)	MB 229.5 (v2012.2)	MB 229.5 (v2016.1)	Opel GM-LL-A-025	Opel GM-LL-B-025	Porsche A40	PSA B71 2300	Renault RNI 0710/0700	VW 501.01/505.00	VW 502.00/505.00		
12.6%	5W-20	□		•	•																			
12.6%	5W-30	□	•	•	•			•		•	•		•		□	□					•		•	
12.6%	5W-40		•	•			•	•		•	•			•	□	□	•				•		•	
12.6%	10W-40		•	•			•	•	•	•	•										•	•	◇	□
12.6%	15W-40						•																	
12.6%	20W-50						•																	
10.5%	10W-30		•		•					•														
10.5%	10W-40		•		•		•			•														□
10.5%	15W-40		•		•					•														
10.5%	20W-40		•		•					•														
10.5%	20W-50		•		•					•														

□ Previous claim. Opel GM-LL-A-B-025 are obsolete as of the end of 2012. VW 502.00/505.00 is not awarded by VW to SAE 10W-40 as of 2016.

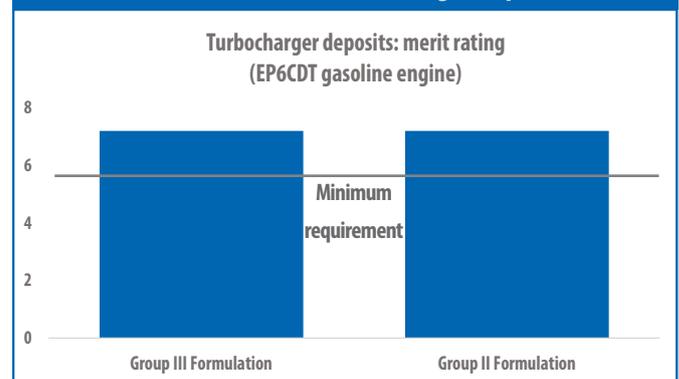
◇ Renewal in progress

Coverage includes: Yubase Group III, Nexbase Group III, Chevron Group II, ExxonMobil EHC Group II, and mixed Chevron Group II/Group III (Yubase or Nexbase). Specific claims vary by formulation.

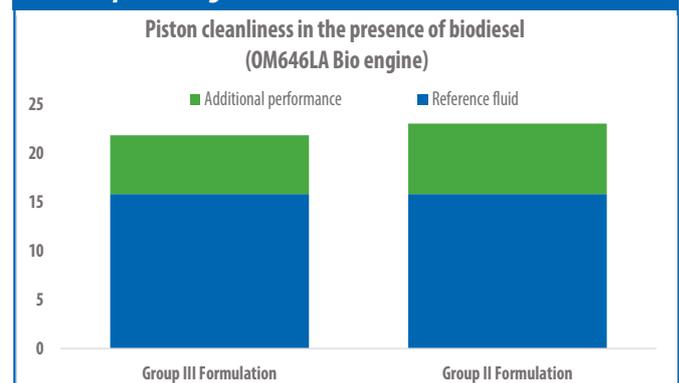
© 2019, Afton Chemical Corporation is a wholly owned subsidiary of NewMarket Corporation (NYSE:NEU). HiTEC® is a trademark of Afton Chemical Corporation. 11/19.

The information in this bulletin is, to our best knowledge, sure and accurate, but all recommendations or suggestions are made without guarantee since the conditions of use are beyond our control. Afton Chemical Corporation and its affiliates disclaim any liability incurred in connection with the use of these data or suggestions. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use.

Excellent Control of Turbocharger Deposits



Keeps the Engine Clean in the Presence of Biodiesel



Handling Information

Max handling temperature: 60°C

Shelf Life: 24 months at ambient temperature