



eni i-Sigma top 4AM

i-Sigma top 4AM API CK-4 engine oils are engineered with an advanced additive system and premium hydro-treated base stocks to provide enhanced wear protection, superior oxidation and aeration control and outstanding TBN retention in a wide range of on and off highway applications.

i-Sigma top 4AM engine oils exceed the latest heavy-duty OEM performance requirements while maintaining full backward compatibility to provide exceptional durability in both modern and older diesel engines operating in commercial and industrial environments.

KEY BENEFITS AND FEATURES*

- Enhanced protection for modern emission control systems utilizing Selective Catalyst Reduction (SCR); Diesel Particulate Filters (DPF) and Diesel Oxidation Catalyst (DOC)
- Superior oxidation and aeration control
- Outstanding TBN reserve with Low-Ash levels
- Advanced viscosity modifiers provide enhanced protection against viscosity loss due to shear
- Backward compatible with previous API Oil Service Categories
- Extended Oil Drain Interval (ODI) capability

*Compared to previous eni i-Sigma top 4AM products

TYPICAL CHARACTERISTICS

SAE GRADE	METHOD	Synthetic Blend	
		10W-30	15W-40
Viscosity, cSt @ 40°C	D 445	80.7	115.4
Viscosity, cSt @ 100°C	D 445	12.1	15.3
Viscosity Index	D 2270	145	139
Cold Cranking Viscosity, cP	D 5293	6150 @ -25°C	5290 @ -20°C
HTHS Viscosity @ 150°C, cP	D 4683	3.5	4.1
NOACK Volatility, mass% @ 250°C	D 5800	13	11
Pour Point °C	D 97	-33	-30
Flash Point °C	D 92	225	238
Density @15°C kg/m ³	D 4052	0.872	0.874
Sulfated Ash, mass%	D 874	1.0	1.0
Base Number, TBN, mgKOH/g	D 2896	10	10
Zinc, ppm	D 5185	1280	1290

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OFFICIALLY LICENSED TO THE FOLLOWING PERFORMANCE SPECIFICATIONS

- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4/SN ⁽¹⁾
- Volvo VDS-4.5
- Mack EOS-4.5
- Cummins CES 20086
- Detroit Diesel DFS 93K222
- Renault VI RLD-4
- Ford WSS-M2C171-F1

(1) API SN - SAE 15W-40 Only

MEETS OR EXCEEDS THE PERFORMANCE REQUIREMENTS OF:

- Caterpillar ECF-3, ECF-2
- ACEA E9, E7
- Daimler MB 228.31
- MTU Category 2.1
- MAN M3575

Due to continual research and development, the information contained herein is subject to change without notice. Always follow the manufacturers' recommendations for lubricant performance, viscosity grade and oil change intervals as these may vary depending on ambient temperature, fuel composition, model year and environment of operation.