

Q8 T 860 10W-40

Synthetic heavy-duty engine oil ACEA E4 / E7 / API CI-4.

Description

Q8 T 860 10W-40 is an ultra high performance heavy-duty engine oil. It provides low temperature fluidity and viscosity retention and volatility control. This product offers a high level of protection to all parts of the engine in severe on- and off-highway applications. The lubricant is designed for modern diesel engines.

Applications

Q8 T 860 10W-40 is designed for trucks with high performance diesel engines, meeting Euro V emission requirements. The product is compatible with normally aspirated or turbocharged commercial vehicles and off-highway equipment as well as engines from Mercedes, MAN, Volvo, Renault, DAF, Iveco and Cummins.

Benefits

- Outstanding drain interval capability.
- Excellent engine cleanliness.
- Excellent protection against engine wear.
- Superb protection against engine fouling due to combustion soot.
- Excellent protection against rust and corrosion.

Specifications & Approvals

ACEA	E4	Isuzu	
ACEA	E7	JASO	DH-1
API	CI-4	Liebherr	LH-00-ENGSC
Caterpillar	ECF-1a	MAN	M 3277
Cummins	CES 20077	MB	228.5
Cummins	CES 20078	MTU	Type 3
DAF	Extended Drain	Mack	EO-N
Deutz	DQC III-10	Renault	RLD-2
Global	DHD-1	Volvo	VDS-3

Properties

	Method	Unit	Typical
Density, 15 °C	D 4052	g/ml	0,871
Viscosity Grade	-	-	SAE 10W-40
Kinematic Viscosity, 40 °C	D 445	mm ² /s	96,0
Kinematic Viscosity, 100 °C	D 445	mm ² /s	14,4
Viscosity Index	D 2270	-	155
Total Base Number	D 2896	mg KOH/g	12,5
Pour Point	D 97	°C	-30
Flash Point, COC	D 92	°C	214
Sulfated Ash	D 874	% mass	1,6
Borderline Pumping Temperature	D 3829	°C	-27

The figures above are not a specification. They are typical figures obtained within production tolerances.

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www.Q8Oils.com

LUKOIL AVANTGARDE PROFESSIONAL SAE 5W-30, 10W-40

Modern super heavy-duty diesel engine fully synthetic lubricants

APPROVALS

MB-Approval 228.5
MAN M 3277
MTU Oil Category 3
Volvo VDS-3
Renault VI RLD-2
Mack EO-N
Deutz DQC III-10 (SAE 10W-40)
Deutz DQC IV-10 (SAE 5W-30)
Scania LDF-3
Ford WSS-M2C212-A1 (SAE 5W-30)

MEETS REQUIREMENTS

API CF (SAE 5W-30, 10W-40)
Cummins CES 20072 (SAE 10W-40)
DAF Extended Drain
ACEA E4/E7
IVECO T18-1804 CLASSE T3 E4 (SAE 10W-40)
IVECO T18-1804 TFE (SAE 5W-30)
Renault RLD/RXD
Cummins CES 20077 (SAE 5W-30)
Mack E-OM Plus (SAE 10W-40)
ZF TE-ML 04C (SAE 10W-40)

PRODUCT DESCRIPTION

LUKOIL AVANTGARDE PROFESSIONAL SAE 5W-30, 10W-40 – synthetic engine oil meets ACEA E4/E7 requirements designed for diesel engines running under severe conditions with extended drain intervals according to the manufacturer's recommendations.

LUKOIL AVANTGARDE PROFESSIONAL SAE 5W-30, 10W-40 is designed for highly rated diesel engines meeting Euro I, II, III, IV and Euro V emission requirements.

LUKOIL AVANTGARDE PROFESSIONAL SAE 5W-30, 10W-40 is formulated using highly refined synthetic base stocks and advanced additive technology of foreign production.

APPLICATION

LUKOIL AVANTGARDE PROFESSIONAL SAE 5W-30, 10W-40 is recommended for use in heavy-duty four-stroke engines operating under a variety of conditions. It is suitable for most modern engines fitted with turbochargers, EGR and SCR NOx reduction systems. Oil drain intervals according to the manufacturer's recommendations.

The product name in an order:

Motor oil LUKOIL AVANTGARDE PROFESSIONAL synthetic SAE 5W-30, STO 00044434-017-2010
Motor oil LUKOIL AVANTGARDE PROFESSIONAL synthetic SAE 10W-40, STO 00044434-017-2010

TYPICAL TEST DATA

PROPERTY	Test method	LUKOIL AVANTGARDE PROFESSIONAL	
		5W-30	10W-40
Density at 20 °C, kg/m ³	GOST 3900 / ASTM D4052	852.4	860.1
Density at 15 °C, kg/m ³	GOST R 51069 / ASTM D4052 / ASTM D1298	856.1	857.4
Kinematic viscosity at 100 °C, mm ² /s	GOST 33 / ASTM D445 / GOST R 53708	12.3	13.9
Viscosity index	GOST 25371 / ASTM D2270	141	165
Cold Cranking Viscosity, CCS	ASTM D5293 / GOST R 52559	5,525 (at -30°C)	4,859 (at -25°C)
Borderline Pumping Viscosity, MRV	ASTM D4684 / GOST R 52257	21,100 (at -35°C)	14,300 (at -30°C)
Total Base Number, mg KOH/1 g oil	GOST 30050 / ASTM D2896	15.62	16.36
Total Base Number, mg KOH/1 g oil	GOST 11362	13.58	14.28
Sulphated ash, %	GOST 12417 / ASTM D874	1.84	1.95
Noack evaporation loss, %	ASTM D5800	10.3	8.2
Flash Point, COC, °C	GOST 4333 / ASTM D92	222	222
Pour Point, °C	GOST 20287 B	-40	-35

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO "LLK-International".

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* This document supersedes all previous versions

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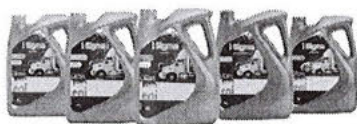
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Number of:



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Eni i-Sigma top MS 10W-40



APPLICATIONS

Eni i-Sigma top MS 10W-40 is a high-performance fuel efficiency engine oil based on synthetic technology. It is suitable for use heavy duty diesel engines of: trucks, buses, commercial vehicles, tractors and construction equipment, equipped with exhaust after treatment devices operating under severe conditions with extended drain intervals.

It can be used also in stationary diesel engines and heavy-duty natural gas vehicles.

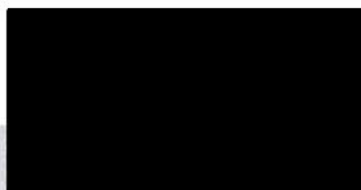
CUSTOMER ADVANTAGES

- **Eni i-Sigma top MS 10W-40** is an advanced heavy-duty diesel engine lubricant incorporating the latest additive chemistry to meet and exceed current global and OEMs specifications. It is a low SAPS (Sulphated Ash, Phosphorus, Sulphur) oil which reduces harmful deposits to protect and prolong the life of modern emission control systems.
- It has fuel saving properties which allow a reduction in fuel consumption compared to traditional lubricants. It offers an excellent protection against rust and wear, minimum evaporation losses and a good detergency properties that maximize engine performance and extend the engine life.

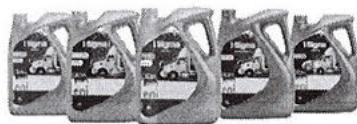
SPECIFICATIONS

- ACEA E6, E7, E9
- API CK-4
- Caterpillar ECF-2, ECF-3
- Cummins CES 20081
- Detroit Diesel 93K218
- Deutz DQC IV-10 LA
- JASO DH-2-17
- MAN M 3271-1
- MACK EO-O PP (Approved)
- MAN M 3477 (Approved)
- MB-Approval 228.51

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Eni i-Sigma top MS 10W-40



- MTU type 3.1 (Approved)
- Renault VI RLD-3 (Approved)
- Scania Low Ash (Feedback)
- Volvo VDS-4 (Approved)

CHARACTERISTICS

Properties	Method	Unit	Typical
Density at 15°C	ASTM D 4052	kg/m ³	857
Viscosity at 100°C	ASTM D 445	mm ² /s	14.9
Viscosity at 40°C	ASTM D 445	mm ² /s	98
Viscosity Index	ASTM D 2270	-	159
Viscosity at -25°C	ASTM D 5293	mPa·s	5369
Pour point	ASTM D 5950	°C	-36
Flash point COC	ASTM D 92	°C	224
B. N.	ASTM D 2896	mg KOH/g	10.1

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