

SAVANT Engine Oil HDX 10W-40 **Semi Synthetic Heavy Duty Diesel Engine Oil**

SAVANT Engine Oil HDX 10W-40 is an extra high performance universal semi synthetic engine oil designed for high loaded diesel engines in light- and heavy commercial vehicles working under severe operating conditions through the whole year for use in Euro-3, Euro-4 and Euro-5 engines equipped with EGR and/or SCR. This product is not suitable for vehicles equipped with DPF filters.

SAVANT Engine Oil HDX 10W-40 is formulated with high refined solvent mineral and synthetic base stock in combination with a special additive package to reach the following properties:

- Excellent thermal- and oxidation stability.
- Very good dispersancy and detergency.
- High anti-foam, anti-wear and anti-corrosion properties.
- Excellent protection against Bore Polishing.
- Extended drain intervals.

SAVANT Engine Oil HDX 10W-40 exceeds the following performance criteria:

Approved	MB-Approval 228.3	MAN M 3275	Volvo VDS-3
	Renault RLD-2	Mack EO-N	
Exceeds	API CI-4	ACEA E7	DDC 93K215
	Caterpillar ECF-1a, ECF-2	Global DHD-1	JASO DH-1
	Allison C4	MTU Type 2	Mack EO-M+
	Cummins CES 20077/20078	DAF HP-2	

Typical Analysis

Properties	Unit	Method	Typical Value
SAE Grade		SAE J3000	10W-40
Density @15°C	kg/m ³	ASTM D4052	873
Kin. Viscosity @40°C	mm ² /s	ASTM D7042	90
Kin. Viscosity @100°C	mm ² /s	ASTM D7042	13.9
Viscosity Index		ASTM D2270	155
Viscosity CCS @-20°, max.	cP	ASTM D5293	7000
Flash Point COC	°C	ASTM D92	>201
Pour Point	°C	ASTM D97	-39
Total Base Number	mgKOH/g	ASTM D2896	10.3
Sulphated Ash	%Wt	ASTM D874	1.5

Date Issued: 31-08-2015 Revision no. 1	Technical Assistance 0724 - 661 272	Tel: 021 330 1 330 , Fax: 021 – 330 4 330 email: office@avant.ro , www.avant.ro	Made in EU
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The information contained in this document reflects our present technical knowledge, besides it provides a description of the product characteristics and enumerates the different applications the product can be suitable for. The user will have to make sure of testing the product prior to each particular use. AVANT COM SRL reserves the right to make modifications in the products after the date of edition of the present document . The values of the given physic-chemical characteristics are typical values. This limited express warranty is expressly in lieu of any other direct or indirect (implied) warranties, including any implied warranty of merchantability or fitness for a particular purpose, and of any other obligation on the part of AVANT COM SRL. The sole remedy for breach of this limited express warranty could be the refund of the purchase price after AVANT COM SRL agrees on returning the product in full. All other liabilities will be negated and disclaimed, and AVANT COM SRL shall not be liable for any damages (direct, indirect etc.) which could occur.

SAVANT Engine Oil HDX 10W-40

Semi Synthetic Heavy Duty Diesel Engine Oil

SAVANT Engine Oil HDX 10W-40 este un ulei de motor universal semisintetic multigrad de inalta performanta recomandat pentru motoare diesel supuse la incarcari ridicate, pentru vehicule comerciale grele si usoare, care opereaza in conditii severe, pentru utilizare in motoare Euro-3, Euro-4 si Euro-5 echipate cu sisteme EGR si/sau SCR.

Acest lubrifiant nu este recomandat pentru vehicule echipate cu filtre DPF.

SAVANT Engine Oil HDX 10W-40 este formulat din uleiuri de baza inlt rafinate cu solvent si uleiuri de baza sintetice in combinatie cu un pachet de aditivi special, pentru a atinge urmatoarele performante :

- Excelenta stabilitate termica si la oxidare .
- Detergenta si dispersanta foarte buna.
- Proprietati superioare antispumare, antiuzura si anticoroziune.
- Protectie excelenta impotriva -Bore Polishing.
- Prelungirea intervalelor de schimb.

SAVANT Engine Oil HDX 10W-40 depaseste urmatoarele criterii de performanta :

Aprobat	MB-Approval 228.3	MAN M 3275	Volvo VDS-3
	Renault RLD-2	Mack EO-N	
Depaseste	API CI-4	ACEA E7	DDC 93K215
	Caterpillar ECF-1a, ECF-2	Global DHD-1	JASO DH-1
	Allison C4	MTU Type 2	Mack EO-M+
	Cummins CES 20077/20078	DAF HP-2	

Analize tipice

Proprietati	Unitatea	Metoda de analiza	Valori tipice
SAE Grade		SAE J3000	10W-40
Densitate @15°C	kg/m ³	ASTM D4052	873
Viscozitate cinematica @40°C	mm ² /s	ASTM D7042	90
Viscozitate cinematica@100°C	mm ² /s	ASTM D7042	13.9
Indice de viscozitate		ASTM D2270	155
Viscozitate CCS @-20°, max.	cP	ASTM D5293	7000
Punct de inflamabilitate COC	°C	ASTM D92	>201
Punct de curgere	°C	ASTM D97	-39
Cifra de bazicitate totala	mgKOH/g	ASTM D2896	10.3
Cenusa sulfat	%Wt	ASTM D874	1.5

Data emiterii: 31-08-2015 Revizia nr. 1	Asistenta tehnica 0724 - 661 272	Tel: 021 330 1 330 , Fax: 021 – 330 4 330 email: office@avant.ro , www.avant.ro	Fabricat in UE
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