

## HIGHTEC TRUCKSTAR SAE 10W-40 MULTI-LA

Low SAPS SHPD, low viscosity engine oil based on HC synthetic base oils.

### Description

HIGHTEC TRUCKSTAR SAE 10W-40 MULTI-LA is a novel Super High Performance Diesel (SHPD) engine oil with a reduced content of sulphated ash, phosphorous and sulphur (Low SAPS) based on advanced additives and HC synthetic base oils. Developed specifically for modern diesel engines with exhaust after-treatment systems in heavy-goods vehicles, buses and work machines.

### Application

HIGHTEC TRUCKSTAR SAE 10W-40 MULTI-LA combines the American and European Low Ash specification in just one product. It is ideally suited to vehicles with exhaust after-treatment systems such as Diesel Particulate Filters (DPF), SCR catalytic converters (Selective Catalytic Reduction) and increased Exhaust Gas Recirculation rates (AGR). Its modern design makes a wide range of applications possible according to the manufacturer's specifications and ensures safe operation even under difficult conditions.

### Approvals

- Deutz QDC IV-10 LA
- Mack EO-O PREMIUM PLUS
- MB-Freigabe 228.51/228.31
- Renault RLD-3
- Volvo VDS-4

### The quality of this product is equivalent to EU regulations

- ACEA E6,E7,E9
- API CK-4
- JASO DH-2
- CAT ECF-3/2/1-a
- Cummins CES 20081
- Detroit Diesel 93K218
- MAN M 3477/M 3271-1
- MTU Type 3.1
- Scania Low Ash

### Additionally this product is recommended when the following filling instructions are required

- Iveco 18-1804 TLS E9

### Benefits

- First-class economy grade for a wide range of applications in commercial vehicles, buses and construction machinery.
- Protection of exhaust after-treatment systems by means of low sulphated ash, phosphorous and sulphur content (Low SAPS)
- The excellent grime tolerance reliably prevents deposits from building up in the engine and exhaust gas turbocharger
- Fuel economy due to low-viscosity characteristics
- Safer year-round operation due to outstanding viscosity-temperature behaviour and high shear stability
- Stable lubricating film, even with hot oil and under excessive loads, and the best wear protection
- High level of oxidation protection by means of selected HC synthetic oils and special additives
- Miscible and compatible with conventional and synthetic engine oils. However, in order to exploit the full product benefits of HIGHTEC TRUCKSTAR SAE 10W-40 MULTI-LA, a complete oil change is recommended.



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### Typical characteristics

Property	Method	Unit	Value
Density at 15 °C	ASTM D-7042	g/ml	0.86
Kinematic viscosity KV 40	ASTM D-7042	mm <sup>2</sup> /s	97,3
Kinematic viscosity KV 100	ASTM D-7042	mm <sup>2</sup> /s	14,7
Viscosity index	ASTM D-7042	-	157
Flash point	ASTM D-92 / DIN EN ISO 2592	°C	242
Pour point	ASTM D-97 / DIN EN ISO 3016	°C	-36
CCS	ASTM D-5293	cP @ °C	5450 @ -25
Total base number	DIN 51639-1	mgKOH/g	10,0
HTHS	ASTM D4683	mPas	4,1
Noack	ASTM D5800	%	8,3
Sulphated ash	ASTM D874	wt-%	≤ 1

The characteristics shown are typical of current production. This data cannot be constructed as a legally binding warranty or guaranty of certain product properties or of the suitability of the product for a specific application. ROWE products are continually improved. Therefore ROWE reserves the right to change all the technical data in this product information at any time without notice. All sales and deliveries shall be subject to our current General Terms and Conditions of Sale and Terms ([www.rowe-oil.com](http://www.rowe-oil.com)).

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