

# ALCO LSAP

## 10W-40



## HIGH PERFORMANCE MOTOR OIL FOR EURO 4- and EURO 5- COMMERCIAL CAR ENGINES

### Properties and Application

**Alco LSAP 10W-40** is a semi-synthetic high performance motor oil, which meets par excellence the highly exalted tribological requirements of the *EURO 4- and EURO 5* - commercial car engine generation.

**Alco LSAP 10W-40** falls below the limits for sulphated ash, sulphur- and phosphorus content (Low SAP's), regulated by law as from 2008 and thus provides one of the basis for the trouble-free operating of downstream exhaust gas treating devices (particle filter), which makes it possible to meet the EURO 5 -standard for diesel engines.

**Alco LSAP 10W-40** assures top performance at the quality criterions wear protection and friction reduction, detergency & dispersancy, corrosion prevention, viscosity temperature dependency, thermal oxidative stability, low evaporation tendency, good elastomer compatibility and few enviromental impact.

**Alco LSAP 10W-40** ensures the EURO 4- and -5 - turbo charged diesel engines extremely extended drain intervals, excellent motor cleanliness, very good cold starting and warmup performance even at lowest temperatures, outstanding aging resistance, reliable lubrication under all operation conditions and reduced pollution of noxious matter caused by the lubricant.

### Specifications

ACEA E6- / E7- / E9-08	CAT ECF-1-a	MB 228.51(*)
API CI-4	Deutz DQC IV-10 LA	MAN 3477, 3271-1
MTU Type 3.1	Cummins CES 20076, 20077	Renault VI RLD-2
Renault Truck RXD ; RGD	Volvo VDS-3, CNG	
Mack EO-M Plus, EO-N	Scania LA	(*) deckt MB 226.9 ab

### Typical Values

ALCO LSAP 10W-40	unit	value	method
Density at 15°C	kg/m <sup>3</sup>	865	DIN 51 757
Viscosity at 40°C	mm <sup>2</sup> /s	92,8	DIN 51 562
Viscosity at 100°C	mm <sup>2</sup> /s	14,8	DIN 51 562
Viscosity Index		167	DIN ISO 2909
CCS at -25°C	mPa.s	6800	DIN 51 377
Pourpoint	°C	-33	DIN ISO 3016
Flashpoint	°C	228	DIN ISO 2592
TBN	mg KOH/g	9,9	DIN ISO 3771

Artikel-Number : 31001

Specification variations in these characteristics may occur.  
The instructions of manufacturer must be regarded. Further informations to be available by MSDS.

ALCO Filter GmbH  
Auf'm Rottland 1  
D-57577 Hamm  
Tel.: 02682 / 95330  
Fax.:02682 / 953320