

Diesel Engine

TECHNICAL DATA SHEET

Product Description

ALES SEMI SYNTHETIC 15W40 is a low-SAPS synthetic diesel engine oil with advanced performance, formulated with severely refined base stocks and sophisticated technology additives to deliver exceptional engine performance in the latest emission designs. This includes engines with after-treatment systems such as Diesel Particulate Filters (DPF), Selective Catalytic Reduction (SCR), and Diesel Oxidation Catalysts (DOC). It can be used in both new and older diesel engines for on- and off-highway applications, due to its compatibility with CJ-4 specifications, and it may also be used in gasoline engines requiring the API SN specification. It is specifically formulated to provide excellent wear and engine protection, extended drain capability with excellent TBN retention, outstanding high-temperature performance, and engine cleanliness.

Features & Benefits

- Excellent oil consumption control, due to very oil low volatility and less oil top-up during operation.
- Outstanding oxidation & thermal stability reduces sludge deposits and keeps the engine cleaner.
- Excellent engine protection by providing outstanding protection against corrosive & abrasive wear.
- Improved shear stability maintains viscosity in-grade under severe, high temperature service conditions.
- Excellent low temperature pumpability ensures smooth cold starting and improved fuel economy.
- Excellent TBN reserves provide improved acid neutralization and corrosion protection, which helps in extending oil drain interval in both new & old engines using either low (500 ppm) or ultra-low (15 ppm) sulfur diesel fuel.

Specifications

ALES SEMI SYNTHETIC 15W40 meets or exceeds following International and Builder specifications:

- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4, CF, CF-2, SN, SM, SL
- ACEA E9/E7-16
- MTU OIL Category 2.1
- MACK EOS-4.5/FORD WSS -M2C171-F1
- Detroit Diesel Power Guard 93K222
- CUMMINS CES 20086
- CAT ECF-3
- MB 228.31
- VOLVO VDS-4.5
- MAN 3275/3575
- Renault VI RLD-4
- Duetz DQC III-10 LA/JASO DH-2

Typical Characteristics

ALES SEMI SYNTHETIC 15W40	Test Method	Units	15W-40
Density @ 15 °C	ASTM D 4052	gm/cc	0.875
Viscosity @ 100 °C	ASTM D 445	cSt	15.4
Viscosity @ 40 °C	ASTM D 445	cSt	120
Viscosity Index	ASTM D 2270	-	134
Pour Point	ASTM D 97	°C	-33
Flash Point (COC)	ASTM D 92	°C	230
Total Base Number	ASTM D 2896	mg KOH/g	9.6
Sulfated Ash	ASTM D 874	% wt	0.9
CCS Viscosity	ASTM D 5293	cP	6500 @ -20 °C

The above figures are typical of blends with normal production tolerance and do not constitute a specification.

For further information, please contact: www.alesoil.com