



Neste Turbo+ LSA 10W-40

Fully synthetic multigrade diesel engine oil

PERFORMANCE CLAIMS

API CK-4, CJ-4, CI-4 PLUS, CI-4
ACEA E6/E9/E7
Caterpillar ECF-3, ECF-2, ECF-1a
Cummins CES 20081
Detroit Diesel DFS 93K218
MTU Type 3.1, Type 2.1
Scania Low Ash
Renault VI RLD-2, RLD
Volvo VDS-3, VDS-2

APPROVALS

DQC IV-10 LA
Mack EO-O Premium Plus
MAN M 3171-1
MAN M 3477
MB-Approval 228.31
MB-Approval 228.51
Renault VI RLD-3
Volvo VDS-4

DESCRIPTION

Neste Turbo+ LSA 10W-40 is especially developed for the newest heavy duty diesel engines that have requirements of the American API CK-4 standard and European ACEA E6 or E9. It is designed for use in latest EURO 5 and EURO 6 low emission diesel engines with long drain intervals. Carefully selected raw materials allow it to be used in the most diesel engines.

Neste Turbo+ LSA 10W-40 exceeds the performance criteria of API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, CF-4 and ACEA E6, E9 and E7. It also exceeds original equipment manufacturer (OEM) requirements providing high performance in heavy-duty applications. All above mentioned makes Neste Turbo+ LSA 10W-40 universal in different applications.

As a low SAPS engine oil it will (sulphated ash, phosphorus and sulfur) sustain equipment emission control systems durability where particulate filters and other advanced aftertreatment systems are used. It prevents filter blocking and helps to maintain engine efficiency.

Neste Turbo+ LSA 10W-40 highest quality base oil and top class dispersive, detergent and anti-oxidative additives slows down engine oil oxidation and aging significantly and allows it to be used for long drain intervals.

It's protective lubricating film and highest quality anti-wear additives protect the engine effectively from wear even at high temperatures and loads during all drain intervals.

High quality base oil in Neste Turbo+ LSA 10W-40 have less potential of leaving residues in the burning chamber providing better engine cleanliness as well as effectively reducing vehicle emissions which is mandatory for new emission legislations. Highest quality additives additionally helps to keep the engine clean by controlling formation of deposits and maintaining piston cleanliness. This gives reduced oil consumption and increased engine performance.

Its excellent temperature stability increases the lubricant's durability at high temperatures and improves flow at low temperatures. Additional high shear stability prevents viscosity loss.

High TBN effectively neutralizes acids and prevents corrosion. Improved prevention of sludge and varnish formation and soot growth reduces viscosity increase and prevents oil thickening and filter plugging. Overall engine cleanliness and protection ability reduces total service costs.

FEATURES AND BENEFITS

- Good cold start performance
- Long drain interval
- Low emission
- Excellent engine cleanliness

TYPICAL CHARACTERISTICS

Viscosity Index	156		ASTM D2270
Viscosity @ 40 °C	94	cSt	ASTM D445
Viscosity @ 100 °C	14,2	cSt	ASTM D445
Base Number (TBN)	9,9	mg KOH/g	ASTM D2896
Sulfated Ash	0,95	w/w %	ASTM D874
Pour Point	-36	°C	ASTM D5949
Noack Volatility	9,8	%	ASTM D5800
HTHS viscosity @ 150 °C	4,0	cP	ASTM D4683
Flash Point (COC)	238	°C	ASTM D92
Density 15 °C	860	kg/m ³	ASTM D4052
Viscosity (CCS) @ -25 °C	5500		

APPLICATIONS

The Neste Turbo+ LSA 10W-40 is especially suitable for the newest heavy-duty equipment where particulate filters and other advanced aftertreatment systems are used. It can be used in older equipment too where requirements are based on ACEA E7 specification.

Especially suitable for latest Mercedes-Benz and MAN heavy duty vehicles requiring Low SAPS oil. Thanks to its comprehensive performance, it is also suitable for a wide range of other vehicles and industrial engines. Please check your equipment suitability according to Performance claims and the Approvals in this product data sheet.

Fits EURO 1, 2, 3, 4, 5 and 6 engines. Check your car's manual for compatibility.

NOTE!

When using API CK-4 oil with higher than 15 ppm sulfur fuel, consult the engine manufacturer for service interval. API CK-4 oils are developed for use in all applications with diesel fuels ranging in sulfur content up to 500 ppm. However high sulfur fuel may affect exhaust aftertreatment system durability or oil drain intervals.
