

MAXTRON® Enviro-EDGE®

Full Synthetic Heavy Duty Diesel Engine Oil

The Maxtron® Enviro-EDGE® Advantage

Maxtron® Enviro-EDGE® SAE 5W-40, with Wear Saver Technology®, is an advanced full synthetic diesel engine oil engineered for excellent fuel economy and wide temperature range performance. **This unique, enhanced CK-4 formulation provides superior protection for all Tier IV and newer model year low-emission engines, as well as additional protection for older engines.** Developed for ultimate oxidation protection, durability, longer engine life, and improved fuel economy, Maxtron Enviro-EDGE provides unsurpassed, backward-compatible protection against the increased thermal demands of today's diesel engines.

Maxtron® Enviro-EDGE® Typical Properties

SAE Grade	5W-40
API Service	CK-4, CJ-4, CI-4 Plus, CI-4, /SN
API Gravity/Density lbs/gal	34.1/7.12
Viscosity @ 40°C, cSt	94.3
Viscosity @ 100°C, cSt	15.2
Viscosity Index	170
Pour Point, °F (°C)	-49 (-45)
MRV-TP1, cP	32,800 @ -35°C
CCS Viscosity, cP	5,930 @ -30°C
Total Base No. (TBN)	11.0
HTHS Viscosity, mPa-s ASTM D4683	4.0
Sulfated Ash Wt. %	1.1

Industry Specifications

Maxtron® Enviro-EDGE® is formulated to meet or exceed the following Service Categories: CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, and CF/SN.

Typical Applications

Maxtron Enviro-EDGE is also designed to exceed the newest API and OEM service categories: Mack EOS-4.5, EO-O Premium Plus, EO-N Volvo VDS-4.5, VDS-4, VDS-3, Cummins CES 20086, CES 20081, Caterpillar ECF-3, EC-/2, Detroit Diesel DFS 93K222, DFS 93K218, Daimler MB 228.31, Renault RLD-4, RLD-3, MAN M-3575, MTU Category 2.1, ACEA E9-2012, E7

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Recommended for Operators of Heavy-Duty Diesel Engines:

- ▶ In fleet, construction or agricultural applications
- ▶ Instances when the manufacturer recommends the use of 5W-40 diesel engine oils
- ▶ On and off-highway engines operating in extreme temperatures
- ▶ In diesel passenger cars and light trucks
- ▶ All Tier IV systems and older engines specifying older API or OEM oil performance categories

MAXTRON® DEO

Synthetic Blend Diesel Engine Oil

The Ultimate Level of Protection

Maxtron® DEO synthetic blend diesel engine oils are engineered with **Wear Saver Technology®** and a high quality synthetic base stock blend to provide the ultimate level of protection for heavy duty diesel engines. **This robust, CK-4 formulation is engineered with enhanced oxidation protection – a critical factor for newer engines and extended drains – and displays exceptional film strength.** Showcasing superior backward-compatibility for new, current and older diesel engines, Maxtron DEO is built to exceed the highest industry and manufacturers requirements.

Maxtron® DEO Typical Properties

SAE Viscosity Grade	15W-40	10W-30
API Service	CK-4, CJ-4, CI-4 Plus, CI-4, /SN	CK-4, CJ-4, CI-4 Plus, CI-4
API Gravity/Density lbs/gal	34.1/7.33	32.4/7.29
Viscosity @ 40°C, cSt	112.6	81.9
Viscosity @ 100°C, cSt	15.2	12.2
Viscosity Index	141	145
Pour Point, °F (°C)	-33 (-36)	-44 (-42)
MRV-TP1, cP	18,600 @ -25°C	20,100 @ -30°C
CCS Viscosity, cP	5,210 @ -20°C	6,070 @ -25°C
Total Base No. (TBN)	10	10
HTHS Viscosity, mPa-s ASTM D4683	4.1	3.5
Sulfated Ash Wt. %	0.99	0.99

Industry Specifications

Maxtron® DEO is designed to meet or exceed the following Service Categories: CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4, CG-4, and CF/SN.

Typical Applications

Maxtron DEO also meets or exceeds the newest API and OEM service categories: Mack EOS-4.5, EO-O Premium Plus, EO-N, Volvo VDS-4.5, VDS-4, VDS-3, Cummins CES20086, CES20081, (and all prior CES Specifications) Caterpillar ECF-3, ECF-2, Detroit Diesel DFS 93K222, 93K218, Daimler MB 228.31*, Renault RLD-4, RLD-3*, MAN M-3575*, ACEA E9-2012, E7-08/E9-08, MTU Category 2.1*.

*SAE 10W-30 and official OEM claims are formulation specific.

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Recommended for Operators of Heavy-Duty Diesel Engines:

- ▶ Truck fleets with newer low emission compliant Tier IV engines or older engines
- ▶ Construction diesel engines operating under heavily loaded conditions
- ▶ Agricultural diesel engines operating in severe conditions
- ▶ Light-duty diesel trucks