

# MAXTRON<sup>®</sup> DEO

## Synthetic Blend Diesel Engine Oil

### General Description

**MAXTRON DEO** is our most advanced synthetic blend diesel engine oil engineered to protect all 2007 model year low emission engines and their exhaust after treatment systems. This unique formulation was also designed to provide additional protection for older engines. The high TBN, outstanding TBN retention, additional anti-oxidant, and Wear Saver Technology™ give Maxtron DEO the highest level of “Reserve Quality” to provide excellent engine protection in the most severe service.

**MAXTRON DEO** is designed for longer engine life in fleet, construction, and agriculture equipment under the most extreme conditions. It has undergone thousands of hours of engine testing and millions of miles of field testing to give unsurpassed engine protection.

**MAXTRON DEO** has been proven to protect diesel particle filter (DPF) against ash buildup. In addition, improved engine protection from soot, deposits, varnish, wear, acid accumulation, TBN retention, viscosity shear loss, and oil consumption.

### Expect superior performance in:

- Four-stroke naturally aspirated and turbocharged diesel engines.
- All new 07' low emission engines with exhaust after treatments devices.
- Pre-2007 engines specifying older API or OEM oil performance categories.
- Using ultra low or low sulfur diesel fuel.

### Features and Benefits

#### **Emission and Catalyst Protection:**

Specifically designed to protect catalyst, particulate filters, and other emission components providing less engine down time.

**Oil Durability:** A special synthetic blend including Wear Saver Technology and enhanced oxidation system provides longer oil and engine life.

**Oil Pumpability:** MAXTRON DEO synthetic blends exceed the pumpability requirements of multi-grade oils, providing improved lubrication to critical engine parts to reduce wear during cold start-ups.

**Exceptional Soot Control:** MAXTRON DEO has demonstrated exceptional soot control that exceeds the requirements of all new and older engines. This additional control reduces engine wear and extends engine life.

**TBN Retention:** A high Total Base Number (TBN) and excellent TBN retention means that more combustion contaminants (deposits, soot, acids) can be held in suspension and neutralized during the course of a drain interval.

#### **Deposit and Oil Consumption Control:**

Provides a reduction of deposits and oil consumption leading to longer engine, emission, and (DPF) system life.

**Reserve Protection:** MAXTRON DEO features the added security of Wear Saver Technology and extra reserve built into the oil. This reserve capacity suspends additional soot, neutralizes additional acids, reduces oxidation, and reduces wear for longer engine life.

**Volatility Control:** Less oil volatility provides reduced consumption, lower deposits, and reduced oil into the emission system.

**Extended Drain:** MAXTRON DEO is capable of extended drain service in 07' and older engines using low sulfur and ultra low sulfur diesel fuels.

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### Typical Application:

MAXTRON DEO is designed to exceed the newest API and OEM service categories: Mack EO-O PP 07', EO-N PP 03', EO-N Plus, EO-M\*, Volvo VDS-4/3/2, Cummins 20081, 20071, 20072\*, 20076\*, 20077\*, 20078, Caterpillar ECF-3/1, Detroit Diesel 93K218/15/14, 7SE270, \* Mercedes Benz 228.3\*, Renault RLD-3\*, MAN M-3275\*, Global DHD-1\*, ACEA E7-04\*, JASO DH-2, MIL-L-2104 E/F, Allison C-4/3\*.

\*SAE 15W-40 Viscosity Grade

### Typical Customer

Operators of heavy-duty diesel engines:

- Truck fleets with new low emission compliant engines or older engines.
- Construction diesel engines operating under heavily loaded conditions.
- Agricultural diesel engines operating in severe conditions.
- Diesel passenger cars and light trucks.
- Stationary engines, irrigation, and standby generators.

### Total Protection Plan™ Warranty

MAXTRON DEO is backed by the Total Protection Plan warranty program for up to 10 years/10,000 hours on agricultural equipment. See the Warranty program for complete details.

### Health & Safety

A complete material safety data sheet is available upon request. Used motor oil contains combustion by-products which may be harmful. Avoid prolonged or repeated skin contact. Wash clothing and exposed areas with soap and water. Don't pollute - return used oil to a collection center

### Typical Properties

SAE Grade	15W-40	10W-30	5W-40
API Service	CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, CF-4, CF/SM	CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, CF-4, CF/SL	CJ-4, CI-4 Plus, CI-4, CH-4, CG-4, CF-4, CF/SM
API Gravity/Density lbs/gal	30.4/7.28	31.3/7.24	33.2/7.15
Viscosity @ 40°C, cSt	118.3	79.3	94.8
Viscosity @ 100°C, cSt	15.7	11.8	15.8
Viscosity Index	141	142	179
Pour Point, °F (°C)	-43 (-42)	-43 (-42)	-45 (-43)
MRV-TP1, cP	19,000 @ -25°C	17,000 @ -30°C	26,000 @ -35°C
CCS Viscosity, cP	5,800 @ -20°C	6200 @ -25°C	5,600 @ -30°C
Total Base No. (TBN)	10	10	10
Sulfated Ash Wt. %	0.99	0.99	0.99

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.