



LUBRICANTS

## Triton® ECT Diesel Engine Oil

Phillips 66® Triton ECT Diesel Engine Oil is a premium quality, full-synthetic engine oil developed for use in 4-stroke cycle diesel engines operating under extreme temperature conditions. It meets API CK-4 performance requirements for use in modern low-emission engines designed to meet 2007 and later EPA on-highway exhaust emissions standards, and is backward serviceable for use in older diesel engines. It is specially formulated for compatibility with exhaust aftertreatment systems using diesel particulate filters (DPF), diesel oxidation catalysts (DOC) and/or selective catalytic reduction (SCR). The full-synthetic formulation and SAE 5W-40 viscosity grade provide excellent low-temperature properties for better performance in harsh winter climates.

Triton ECT is formulated with synthetic base stocks and an advanced low-SAPS additive package to provide outstanding wear protection, soot control and bearing corrosion protection in both conventional and EGR-equipped diesel engines. It has excellent soot dispersancy to protect against abrasive wear and soot-induced oil thickening, and to ensure good low-temperature pumpability even with highly soot-laden oil. The full-synthetic formulation provides enhanced oxidation resistance and thermal stability at high temperatures and improved low-temperature properties compared with a conventional, non-synthetic formulation.

Triton ECT meets or exceeds the performance requirements of API Service Categories CK-4 and SN, and is approved under the latest OEM specifications for use in low-emission diesel engines. It is backward serviceable for use where earlier API "C" category engine oils, or the concurrent earlier OEM specifications, are specified. It is formulated for use in diesel engines operating on diesel fuels with sulfur content up to 500 ppm. However, for applications not using Ultra-Low Sulfur Diesel (ULSD), consult the engine manufacturer for recommended service interval.

### Applications

- On- and off- highway diesel equipment operating at low ambient temperatures
- On-highway diesel trucks equipped with EGR and exhaust aftertreatment systems to meet 2007/2010 emissions standards
- Older diesel equipment with conventional, non-EGR engines or ACERT engines
- Off-highway construction, earth moving and mining equipment
- Mixed fleets with diesel and gasoline-fueled vehicles

Triton ECT Diesel Engine Oil is licensed, registered or approved for:

- API Service CK-4 CJ-4, CI-4 PLUS, SN
- Cummins CES 20086
- Detroit Diesel DFS 93K222
- Deutz DQC III-10
- Mack EOS 4.5, Volvo VDS 4.5
- Mercedes-Benz Sheet 228.31

**Premium Full  
Synthetic API  
CK-4 Diesel  
Engine Oil**

KEEPING THE  
WORLD  
RUNNING  
SMOOTHLY. 



- Renault VI RLD-4
- Ford WSS-M2C171-F-1

Triton ECT Full Synthetic meets or exceeds the requirements of:

- ACEA E9-08, E7-08
- Caterpillar ECF-3, ECF-2, ECF-1-a
- Diesel engines manufactured by OEMs not listed above, where the OEM specifies API CK-4 engine oil

## Features/Benefits

- Excellent protection for newer low-emission diesel engines and older diesel engines
- Specially formulated to protect exhaust aftertreatment systems
- Outstanding soot control for protection against abrasive wear and soot-induced oil thickening
- Outstanding resistance to viscosity and thermal breakdown at high temperatures
- Protects against sludge and varnish formation
- Protects against rust, bearing corrosion and wear
- Excellent low-temperature pumpability for easier starting and less wear during cold starts
- High shear stability
- High resistance to foaming and aeration

## Triton<sup>®</sup> ECT Diesel Engine Oil

Typical Properties	
<b>SAE Grade</b>	<b>5W-40</b>
Specific Gravity @ 60°F	0.855
Density, lbs/gal @ 60°F	7.12
Color, ASTM D1500	4.0
Flash Point (COC), °C (°F)	240 (464)
Pour Point, °C (°F)	-48 (-54)
Viscosity, Kinematic	
cSt @ 40°C	96.0
cSt @ 100°C	14.5
Viscosity Index	166
Cold Cranking Viscosity, cP @ -30°C	6,230
High-Temp/High-Shear Viscosity, cP @ 150°C	4.2
Sulfated Ash, ASTM D874, wt %	1.0
Total Base Number (TBN), ASTM D2896	10.2
Zinc, wt %	0.1288

## Health & Safety Information

For recommendations on safe handling and use of this product, please refer to the Safety Data Sheet via <http://www.phillips66.com/EN/products/Pages/MSDS.aspx>.

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Typical properties are average values only and do not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture, and at different blending locations. Product formulations are subject to change without notification.

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