

Topline Express 15W-40

Advanced, High Performance, Heavy-Duty 'Global' Diesel Engine Oil

Topline EXPRESS is the most advanced development in lubrication chemistry resulting in a world capable diesel engine oil. **Topline EXPRESS** has been formulated specifically to meet the requirements of European, American and Japanese design emission engines including those engines which incorporate Exhaust Gas Recycling (EGR) to provide fuel efficiency, high wear protection and long drain capability. EGR can add to deposits forming in the combustion chamber, and therefore Topline Express low sulphated ash content assists in maintaining engine and injector cleanliness.

Summary of Benefits

- Formulated with 'advanced' virgin base oils and the latest additive technology available.
- Provides maximum protection for line haul and off road vehicles operating in the most arduous conditions
- Designed for a wide range of engines including Cummins, Mack, MAN, Volvo, Mercedes, Hino, Caterpillar and Detroit Diesel series 60 etc.
- For naturally aspirated and turbo charged diesel and petrol engines
- Allows a more flexible approach to oil drain intervals in accordance with the recommendations of the individual engine builders for their specific engines.

Product Code: 2002

Product Size: 1L, 5L, 10L, 20L, 205L, 1000L



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Specifications:

- API: CI-4 Plus/SL, CI-4, CH-4
- SAE Viscosity: 15W-40
- ACEA: E7-08, E5-02, E3-96
- Caterpillar: ECF-2, ECF-1-a
- Global: DHD-1
- JASO: DH1
- Mack: EO-M Plus, EO-M
- Mack EQ-N Premium Plus 03
- Cummins: CES 20071, 20073, 20076, 20077, 20078
- Mercedes Benz: 228.3/229.1
- MAN: 271, 3275
- Volvo: VDS-3
- Allison: Type C-4 (SAE: 30)
- Detroit Diesel: DDC Series 2000/4000, Type 1 (Series 40, 50, 55, 60 engines)
Detroit Diesel does not endorse multi-grade engine oils in their two stroke engines

Typical Characteristics:

Specific Gravity at 15°C (kg/L)	0.885
Flash Point OCO (°C)	200
Pour Point (°C)	-27
Kinematic Viscosity at 40°C mm ² /s (cSt)	107
Kinematic Viscosity at 100°C mm ² /s (cSt)	14.5
Viscosity Index	139
TBN, ASTM, D2896 (MG KOH/g)	9.22
Viscosity at -15 °C (cP)	3000
Viscosity at 150 °C (cP)	3.8
Sulphated Ash (%)	1.18

*Typical characteristics are only a guide to industry and are not necessarily manufacturing or marketing specifications and do not constitute a legal liability.

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Recommendation Guide

- Cummins engines post 1994 with EGR
 - Mack engines post 1994
 - Detroit Diesel 4 Stroke
 - Caterpillar engines post 1991
 - Petrol engines running on Unleaded or LPG fuel
- | | |
|----------------|--|
| Mack | All models - Mack, Cummins, Caterpillar, Renault |
| Kenworth | All models - K100, W900, C500, L700 |
| Detroit Diesel | All 4 stroke models |
| GMC | All models post 1994 |
| Cummins | All models post 1994 with EGR |
| International | All ACCO & S Series - IHI, Cummins, Perkins |
| Western Star | All 48 & 49 Series - Apache, Pawnee, Navajo, Cheyenne, Comanche, Mohawk, Chinook |
| White | All models - Caterpillar, Rolls Royce, Cummins, Gardner |
| Caterpillar | All models - post 1991 |

Storage:

All packages should be stored under cover to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C.

Health, Safety and Environment

A Material Safety Data Sheet (MSDS) is available for each product. Users should consult the MSDS, and follow the precautions outlined and comply with all laws and regulations concerning its use and disposal. Used packaging material should not be incinerated or exposed to flame. After use, protect your environment. Do not pollute drains, soil or water with used product.

The Materials Safety Data Sheet is available at Royal Precision Lubricants by email:
info@royallubricants.com.au.