

## Product Data Sheet

### **Topline Express 15W-40**

*Advanced, Heavy Duty 'Global' Diesel Engine Oil*

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

#### **Summary of Benefits:**

- Designed for a wide range of engines including Cummins, Caterpillar, Mack, MAN, MB, Hino and Detroit Diesel 60 Series.
- Provides excellent protection against corrosion and wear throughout the recommended oil drain period.
- Excellent shear and oxidation stability ensure adequate oil life.

#### **Specifications:**

- API: CI-4 Plus/SL, CI-4, CH-4
- SAE Viscosity: 15W-40
- ACEA: E7-16, E-5-02, E3-96
- Caterpillar: ECF-2, ECF-1-a
- Detroit Diesel: DDC 2000/4000
- Detroit Diesel: 93K215
- Global: DHD-1
- Volvo: VDS-3
- JASO: DH-1 17, DL-0-17
- Mack: EO-N Premium Plus 03, Mack: EO-M Plus, EO-M
- MAN: 271, 3275
- MB: 228.3, 229.1

**Product Code:** 2002

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



V1.1.6.23

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#### **Typical Characteristics:**

Density at 15°C (kg/L)	0.885
Flash Point COC (°C)	200
Pour Point (°C)	-27
Kinematic Viscosity at 40°C mm <sup>2</sup> /s (cSt)	107
Kinematic Viscosity at 100°C mm <sup>2</sup> /s (cSt)	14.5
Viscosity Index	139
Viscosity at -15°C (cP)	3,000
Viscosity at 150°C (cP)	3.8
Total Base Number (mgKOH/g)	9.2
Sulphated Ash (%m)	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.

#### **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 Safety Data Sheet (SDS) is available for each product. Users should consult the SDS, 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 Safety Data Sheet is available at Royal Precision Lubricants website [www.royallubricants.com.au](http://www.royallubricants.com.au) or by email [info@royallubricants.com.au](mailto:info@royallubricants.com.au)

V1.1. 6.23

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