

## **ENGINE OIL SAE 15W40**

*(Engine Oils Formulated with 100% Synthetic Oil)*



### **DESCRIPTION**

PATROL Fully Synthetic Oil series are premium performance synthetic motor oils delivering ultimate performance and protection. It provides exceptional cleaning power, wear protection and overall performance keeping your engine running like new in all driving conditions.

### **APPLICATIONS**

PATROL Fully Synthetic Oil series are top-tier motor oils recommended for many types of modern vehicles where it will help provide unsurpassed performance even under very demanding driving conditions.

Extensive cooperative development work with major manufacturers and the application of the latest lubrication technology make them suitable for the latest engine technologies including Turbo-chargers, Direct Injection, Diesels (without DPF) and Hybrids, High performance engines under most operating conditions, from mild to extreme

### **PROPERTIES**

PATROL Fully Synthetic Oil series are high performance engine oils specifically developed to provide the highest fuel economy and lowest CO<sup>2</sup> emissions.

These result from laboratory synthesis of precisely controlled ingredients created by oil engineers, scientists and chemists.

When combined with a high-performance additive package, this results in an oil with the highest levels of lubrication and engine protection, generally offering better protection at startup, better cleansing qualities, enhanced durability and better protection against heat buildup.

### **PRODUCT BENEFITS**

- Maximizes engine life.
- Low oil consumption.
- Excellent engine cleanliness and protection.
- Guaranteed protection from oil-related engine failure.
- High resistance to 'shear' and viscosity loss in high stress areas.
- Maximizes power and performance.
- Lower impact emissions.

- Exceptional resistance to oxidation.
- Delivers unsurpassed levels of protection across a variety of driving conditions and temperatures.
- Outstanding cold flow properties for reduced wear at start up.

## RECOMMENDATIONS / SPECIFICATIONS

### MEETS OR EXCEEDS

API CJ-4  
 ACEA E7 E9  
 Cat ECF-2, ECF-3  
 Cummins CES 20081, 77, 72, 71

## TYPICAL TECHNICAL PROPERTIES

Density at 15°C, g/ml, ASTM D4052	0.88
Cold Cranking Viscosity(CCS), mPas, ASTM D5293, max	6500@-20°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	100.5
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	14.2
Viscosity Index, ASTM D2270	145
Flash Point(COC), °C, ASTM D92	228
Pour Point, °C, ASTM D97	-33
Total Base Number, mg KOH/g, ASTM D2896	10.6
Sulphated Ash, %wt., ASTM D874, max	1.25

**Note:** These characteristics are typical of current production. While future production will conform to PATROL's specification, variations in these characteristics may occur.

**Health and Safety:** Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment

