



## **Mobil Engine Oils**

Like many things we usually buy, Engine Oils are manufactured to meet certain Manufacturer's requirements. The Engine Makers design and then release Lubrication Requirement Guidelines which oil companies then meet. In doing so, the oil companies follow the general accepted trend of having levels of performance in their products that reflect an economic strategy of supply: Low – Medium - High and Very High levels of Specification Compliance.

It is then this level of compliance that creates performance levels for engine oils. I have always compared Oil Specifications to Olympic Qualifying times: The Olympic Committee sets Benchmarks for athletes to meet and those in the required level are eligible to go. This doesn't mean that they are all going to get the Gold Medal, it only means they are there with a chance. So in offering our customers an Engine Oil Solution we have to think also at what quality-performance level we supply to satisfy his needs in the best possible way, and act accordingly.

Life for all of us will be too easy if there was only one engine oil for Petrol, another for Diesel , one transmission oil and one diff oil. Where would the Engineer's world be if all of them would agree to have a single specification. This will be BOOOOORING !!

Could you imagine a world where all the houses were the same?? All cars the same?? TVs, Computers etc?? NO WAY. We have to be different – it's human nature!!.

**SO: WE HAVE DIFFERENT ENGINE OILS – LOTS OF THEM !!!** And of course we at Mobil comply: we offer you (and your customers) CHOICE....Lots of Choices.

For this essay, we'll leave Mobil 1 aside. This baby is on a league of its own!! It is unquestionable, the finest Engine Oil in the market.

Performance Requirements by Manufacturers are always quite unique. They are constantly saying that their engines are better, last longer, produce more power and more efficiently etc, and then we have Fuels : Petrol, Petrol + Ethanol , Diesel, Diesel + Gas, Diesel + Bio Diesel, LPG, CNG just to name a few, and then Emission control add-ons like Particulate Filters, Catalytic Converters, Oxygen Injection, and then power boosters, like Turbochargers and Superchargers, Economy Boosters like: Direct or Indirect Injection, Variable Valve Timing, Cylinder Deactivation and the list goes on. And on top of that we have Old Engines, Little Engines, Constant Speed Engines, High Performance Engines. Should we add more? And at the end of this line are you, the Service Personnel or Maintenance Managers that have to make the decision (the RIGHT DECISION) to Protect these Engines by using the RIGHT STUFF.



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So then let's see if we can make some sense out of this maze:

**Mobil Special EM 25W-60:**

For all those oldies around. There are still out there some Old Technology Engines that need this oil. EM 25W-60 is a high quality, good solid higher viscosity performer. It needs, like all older type oils, to be drain often like no more than 3 to 5000 km.

Meets API SG/CD.

**Mobil Super 1000 Diesel 15W-40:**

A Premium Diesel Engine for light duty Diesel Cars and Light Trucks. It is a proven performer and will do extremely well in most application where good protection is required. It will do well also on older Petrol Engines. If Heavy Duty operations are not present and the Diesel Engines are run under what we could call " Normal Operating Conditions" , this is the oil to use.

Meets API CI4, CH4, SL/SJ and ACEA E7. Also CF4, ACEA E5.

**Mobil Super 1000 20W-50:**

It is a Premium Mineral, Good all rounder oil. Primarily a Gasoline Engine oil for less stressful driving conditions (light Duty). Meets also the older Diesel Engine Specs CF introduced in 1994. Good off road, light duty non turbo Diesel Engine Oil.

Meets API SM/SL petrol engine requirements and Diesel CF.

**Mobil Super 1000 X2 15W-40:**

This oil being also a Premium Mineral, is engineered to provide a high level of protection under most operating conditions, but in general the 1000 series is designed light duty operation.

Meets the latest API Petrol Engine SM/SL/SJ, and CF Diesel Specification, also the European Petrol and Light Duty Diesel Engine ACEA (A3/B3), the MB 229.1 and VW 505.00.

**Mobil Super 2000 5W-30:**

We enter now the Semi-synthetic family of lubricants. They provide outstanding engine protection and also added friction reducing properties to help in achieving better fuel economy. Mostly designed for Gasoline (Petrol) and LPG powered vehicles. Good for On-highway cruising.



Meeting the latest API SM/SL it meets also ILSAC GF-4/GF-3 Specs (car Manufacturers Specs USA/Japanese/European). This specification is the first one to refer Engine Seals Materials and Catalyst effects. It also meets GM 6094 and 9986231 and Ford Specs WSS-M2C915-A.

#### Mobil Super 2000 X2 10W-40:

An enhanced semi-synthetic superior engine oil. Designed to provide protection well beyond conventional oil and in petrol engines can be used to extend drain intervals. In Diesel Engines this oil is formulated for Normal Drain requirements as stated by the MB 229.1 and VW 505.00. These Specs refer to Diesel Engines in passenger and light commercials.

Meets API SM/SL/SJ/CF. Ideally suited for normal to severe operating conditions including some High Performance vehicles.

#### Mobil Super 3000 X2 5W-40:

The Top-of-the-range Mobil Super family oil. This oil uses a Synthetic Base and Enhanced Additive Package to meet the stringiest requirements for Long Drain operation in both Diesel and Petrol Engines. Ideally formulated for Turbocharged and High Performance Engines used in cars and light commercials. Meets API SM/SL/SJ/CF, BMW Longlife 98, MB 229.3, Porsche Special Oil List and VW 502.00 and 505.00.

This family of very good Engine Oils are Primarily designed to be used in Cars and Light Commercials. They are designed to meet most manufacturer's requirements in this market segment and can be confidently recommended as superior oils in their class.

In addition to the "Super" Family of Engine Oils we have the "Formula" Family. These Engine Oils are designed to meet specific manufacturer requirements:

#### Mobil Formula X2 5W-40:

This oil comes across from Mobil Super X2 3000 5W-40 but has a an insignificant formulation change to make it more suitable for workshop use, more stable in large container storage conditions where exposure to air and moisture could affect the oil if stored for longer periods.

#### Mobil Super FE Special 5W30:

A heavy duty engine oil specifically modified for European Ford engines. It is also a premium quality semi synthetic oil that can be used in different

Meets Ford WSS-M2C913-A and B and ACEA A1/B1 for diesel engines.



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### Mobil Formula S 10W-40:

This oil is the commercial packing of Mobil Super 2000 X2. Packed specially for workshops.

### Mobil Formula S 5W-30

The commercial version of Mobil Super 2000 5W-30

#### **Additional information:**

When confronted with claims by other manufacturers, is interesting to note that they use many Mobil products as their benchmark. This applies most noticeable with Mobil 1. Everybody wants to beat this oil and make outrageous claims like a better result with the 4 ball wear test which is a Gear Oil Test, or higher TBN, which in most cases is irrelevant, a lower pour points with 1 or 2 degrees of difference (minus 48 or 51 C). So like most things in life we have to take these claims with a pinch of salt and stick to basics: ExxonMobil is a Complete formulator: We produce the base oil from Base 1 to Fully Synthetics and most of the additives that go into the oil (ExxonMobil Chemical). This produces a fully balanced product where all its components act in Synergy and not one against the other. Most – if not all – of the most sophisticated specialty lubricants used in Space, Military or Marine are produced by ExxonMobil. So feel supported, we have the most comprehensive Technical Team (Lubeline and Local Lube Engineer) to assist in any requirement you may have, to help with any application and, if required, to help in solving any customer problems you may encounter.

No other Major Oil Co in Australia offers the back-up that ExxonMobil provides.

### Mobil 1:

As mentioned at the beginning of this article, Mobil 1 is on a league of its own. Keep looking for a Mobil 1 essay coming soon.