

# PETRONAS MACH 5 SM 15W-40

## Excellent performance multigrade engine oil

PETRONAS Mach 5 SM 15W-40 is an excellent performance multigrade engine oil specially designed and formulated to provide extra high level of engine protection and superior performance for engines running under the most severe conditions. It is exclusively formulated with premium quality unconventional base oils and advanced additives system to provide outstanding thermal and oxidation stability that ensures minimum oil thickening at very high operating temperature, excellent deposits control and minimized engine wear and tear.

Engineered based on extensive field experiences over many years, PETRONAS Mach 5 SM 15W-40 provides outstanding performance and excellent engine protection operating under the most severe operating conditions throughout today's long drain interval.

### Applications

Recommended for use in all types of passenger cars and latest model high performance cars fitted with fuel injections, multi-valves, turbochargers or superchargers operating under the most extreme conditions. Also suitable for engines requiring API SL, SJ, SH, SG or lower performance levels.

### Customer Benefits

- Outstanding engine protection at all driving conditions
- Prolong engine life
- Outstanding engine cleanliness - protects against engine sludge and varnish deposits
- Resists viscosity and thermal breakdown even in severe service
- Very high shear stability – stay in grade
- Easier cold engine starting – minimize friction and wear at start-up

### Product Typicals

Characteristics	15W-40
Density @ 15 °C, kg/l	0.866
Pour Point, °C	-30
Flash Point, °C	227
Kinematic Viscosity, cSt	
@ 40 °C	108.2
@ 100 °C	14.1
Viscosity Index	132
Cold Cranking Visc, cP	
@ - 20 °C	5,500
Sulphated Ash, %wt	0.9
TBN, mg KOH/g	8
ASTM Colour	L2.5

### Specifications

API SM/CF  
 ACEA A3/B3  
 MB 229.1  
 VW 501/505

### Customer Advice

For further assistance on product MSDS, recommendation or technical queries, please liaise with the regional technical services engineer or contact HQ technical engineers.