# MAGMA X-100

## DESCRIPTION

MAGMA X-100 is an advanced technology, synthetic blend motor oil series of lubricants which provide superior performance in modern gasoline and diesel powertrains. MAGMA X-100 lubricants are formulated by high quality base oils combined with advanced technology additives. They provide high performance standards regarding engine cleanliness wear protection and deposit accumulation. They comply with the requirements of top European and US automotive manufacturers.

## APPLICATIONS

MAGMA X-100 lubricants are suitable for use in all 4-stroke gasoline and diesel engines fitted in passenger cars and light trucks. They are excellent for high-rev engines equipped with catalytic/not catalytic converters, including turbocharged and multi-valve ones. They can be used in all operating conditions (city traffic, motorways) for long drain intervals. They are also suitable for gas-fuelled (LPG) spark ignition engines.

## CHARACTERISTICS-BENEFITS

| CHARACTERISTICS | BENEFITS |
|---|---|
| Viscosity retention within grade limits. | Rapid lubrication at cold starting, friction reduction at start-up; effective lubricity during high temperature operation. |
| Versatile applications; suitable for use in old and new technology engines. | Maintenance and operation costs reduction. |
| High thermal stability and oxidation resistance. | Outstanding lubricity for long drain intervals. |
| Cleanliness high levels; wear protection and soot handling. | Protection against varnish deposits and sludge build-up in critical rings and valve areas; retention of engine efficiency. |
| Fuel savings. | Lower exhaust emissions. |

## PHYSICAL-CHEMICAL CHARACTERISTICS

| MAGMA X-100 | METHOD | SAE 5W-30 | SAE 10W-30 | SAE 5W-40 | SAE 10W-40 |
|---|---|---|---|---|---|
| Density at 15°C, g/cm$^3$ | ASTM D1298 | 0,859 | 0,859 | 0,868 | 0,867 |
| Dynamic viscosity, °C/cP | ASTM D5293 | -30/6100 | -25/5200 | -30/6300 | -25/6000 |
| Viscosity, Kinematic (cSt) 100$^0$C | ASTM D445 | 11,0 | 10,52 | 14,0 | 14,5 |
| Viscosity, Kinematic (cSt) 40$^0$ C | ASTM D445 | 61,7 | 65,51 | 84,5 | 95,0 |
| Viscosity index | ASTM D2270 | 172 | 149 | 171 | 158 |
| Flash point, COC, °C | ASTM D92 | 226 | 228 | 230 | 232 |
| Pour point, °C | ASTM D97 | -36 | -36 | -36 | -33 |
| TBN, mgKOH/g | ASTM D2896 | 10,3 | 10,3 | 10,3 | 10,3 |

The abovementioned characteristics represent mean values.

## SPECIFICATIONS

API SL, CF; ACEA A3/B3, A3/B4; MB 229.1; VW 501.01, VW 505.00; JASO MA2

## APPROVALS

**SAE 10W-40**: API SL