

# MAG 1<sup>®</sup> HIGH MILEAGE SYNTHETIC BLEND 10W-30 MOTOR OIL

HIGH MILEAGE SYNTHETIC BLEND MOTOR OILS PASSENGER CAR MOTOR OIL



MAG 1<sup>®</sup> High Mileage Synthetic Blend 10W-30 Motor Oil is formulated to extend engine life for vehicles that have already exceeded 75,000. It seals leaks, features superior oxidation stability, and provides extra protection against sludge, deposit buildup, and high temperatures. It also delivers the following benefits:

- Minimizes oil consumption and maximizes power output.
- Resists thermal breakdown and reduces deposit formation for longer, better engine protection than conventional oils.
- Provides a strong film barrier to control friction, resist wear and keep metal surfaces from coming into contact.
- Meets or exceeds U.S. and import car and light truck warranty requirements for all automotive gasoline engines currently in use.

HIGH MILEAGE SYNTHETIC BLEND MOTOR OIL FEATURING **EVOLUTIONARY PERFORMANCE**<sup>™</sup>

MAG 1<sup>®</sup> with FMX<sup>®</sup> Technology – Friction Management for Xtreme protection<sup>™</sup> provides these benefits:

## PERFORMANCE

Controls friction and wear more than 65% better than the latest API requirements.<sup>1</sup>

- Optimizes engine life for vehicles with more than 75,000 miles. It provides extra protection compared with conventional oils, plus conditions seals to help prevent leaks.
- Engineered to handle the most severe or extreme conditions.

## STRENGTH

Provides a strong oil film to avoid metal-to-metal contact, even under extreme stress.

- Unsurpassed wear protection. Advanced molecules bond together to prevent metal-to-metal contact of rotating engine parts.
- Enhanced friction reduction. MAG 1 oils react to heat to produce a critical friction-reducing barrier that protects metal surfaces.<sup>2</sup>

## DURABILITY

Stands up to the heat and shearing so it extends oil life.

- Retains viscosity and prevents thermal breakdown. The oil excels even in the harshest conditions.
- Stands up to the heat and shearing so it extends oil life.

<sup>1</sup> As measured against the Sequence IV Average Cam Wear Limit for API SN.

<sup>2</sup> To measure friction reduction benefits, engineers used the ball-on-disk traction test.

## APPLICATIONS

- Provides performance benefits for high-mileage passenger cars, light trucks and sport utility vehicles; plus new and rebuilt engines.

- Formulated to exceed ILSAC GF-5 performance requirements.

## INDUSTRY/OEM APPROVALS

<b>API SN</b>	Approved
<b>ILSAC GF-5</b>	Approved
<b>API SH, SG, SF, SE, SD, SC</b>	Meets Requirements
<b>API SL</b>	Meets Requirements
<b>API SM</b>	Meets Requirements
<b>Chrysler MS-6395</b>	Meets Requirements
<b>GM 6094M</b>	Meets Requirements
<b>ILSAC GF-4</b>	Meets Requirements

## TYPICAL PROPERTIES

<b>Boron, wt. %</b>	ASTM D5185	0.018
<b>Calcium, wt. %</b>	ASTM D5185	0.19
<b>Cold Cranking Simulator at (°C), cP</b>	ASTM D5293	5050 (-25)
<b>Color</b>	ASTM D1500	3
<b>Flash Point °C</b>	ASTM D92	206
<b>Flash Point °F</b>	ASTM D92	403
<b>Foam Seq. III (Tendency/Stability), mL</b>	ASTM D892 (Opt. A)	0/0
<b>Foam Seq. II (Tendency/Stability), mL</b>	ASTM D892 (Opt. A)	0/0
<b>Foam Seq. I (Tendency/Stability), mL</b>	ASTM D892 (Opt. A)	0/0
<b>Gravity, °API</b>	ASTM D287	31.42
<b>High Temperature Foaming, static foam</b>	ASTM D6082 (Opt A)	20/0
<b>High Temperature / High Shear Vis at 100°C, cP</b>	ASTM D6616	7.09
<b>High Temperature / High Shear Vis at 150°C, cP</b>	ASTM D5481	2.97
<b>Molybdenum, wt. %</b>	ASTM D5185	0.004
<b>Nitrogen, wt. %</b>	ASTM D4629	0.084
<b>Noack Volatility, % loss</b>	ASTM D6375	14.4
<b>Phosphorus, wt. %</b>	ASTM D5185	0.077
<b>Pour Point °C (°F)</b>	ASTM D5950	-42°C (-44°F)
<b>Pumping Viscosity at (°C), cP</b>	ASTM D4684	15,400 (-30)
<b>Shear Stability, Final Viscosity in cSt</b>	ASTM D6278	8.58
<b>Specific Gravity @ 60°F (15.6°C)</b>	ASTM D4052	0.8685
<b>Sulfated Ash, wt. %</b>	ASTM D874	0.92
<b>Sulfur, wt. %</b>	ASTM D4951	0.3
<b>TBN, mgKOH/g</b>	ASTM D2896	7.0
<b>Viscosity @ 100°C cSt</b>	ASTM D445	10.17
<b>Viscosity @ 40°C cSt</b>	ASTM D445	65.28
<b>Viscosity Index</b>	ASTM D2270	142
<b>Zinc, wt. %</b>	ASTM D5185	0.085

## CONTAINER/BULK AVAILABILITY

<b>6 Gallon Enviro-Box</b>	Product Number - 65665
<b>3/5 Quart</b>	Product Number - 67180

**6/1 Quart**

Product Number - 64839

**55 Gallon Drum**

Product Number - 62910

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Available in Bulk

Information accurate as of August 8, 2017