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MAG 1[®] SYNTHETIC BLEND 5W-20 MOTOR OIL

SYNTHETIC BLEND MOTOR OIL PASSENGER CAR MOTOR OIL



OEMs continue to evolve engine designs that demand more from motor oil. One brand has evolved right alongside – MAG 1[®].

Synthetic Blend 5W-20 Motor Oil provides extra protection and peace of mind, compared with conventional oil. It provides unsurpassed protection, even in our lightest viscosities. Protects better than the thick oils of the past.

- MAG 1 resists thermal breakdown and reduces deposit formation for longer, better engine protection than conventional oils.
- Additives work to keep engines clean.
- 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 most automotive gasoline engines currently in use.

SYNTHETIC BLEND MOTOR OIL FEATURING **EVOLUTIONARY PERFORMANCE**[™]

MAG 1[®] with FMX[®] Technology – Friction Management for Xtreme protection[™] provides these benefits:

PERFORMANCE

Controls friction and wear more than 65% better than the latest API requirements.¹

- Engineered to handle the most severe or extreme conditions.
- Provides extra protection, compared to conventional oil.

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.²

DURABILITY

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

- Better oxidation and deposit control. New engine design strategies for some OEMs result in higher operating temperatures and the need for greater protection.
- Retains viscosity and prevents thermal breakdown. The oil excels even in the harshest conditions.

¹ As measured against the Sequence IV Average Cam Wear Limit for API SN.

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

APPLICATIONS

- Provides extra performance benefits for passenger cars, light trucks and sport utility vehicles; plus new and rebuilt engines.
- Formulated to exceed ILSAC GF-5 performance requirements.

INDUSTRY/OEM SPECIFICATIONS

API SN	Approved
API SN Plus	Approved
ILSAC GF-5	Approved
API SJ, SH, SG, SF	Meets Requirements
API SL	Meets Requirements
API SM	Meets Requirements
Chrysler MS-10797	Meets Requirements
Chrysler MS-6395	Meets Requirements
Ford WSS M2C945-A, M2C930-A, M2C153	Meets Requirements
GM 6094M	Meets Requirements
ILSAC GF-4	Meets Requirements

TYPICAL PROPERTIES

Boron, wt. %	ASTM D5185	0.018
Calcium, wt. %	ASTM D5185	0.132
Cold Cranking Simulator at (°C), cP	ASTM D5293	5850 (-30)
Color	ASTM D1500	3
Flash Point °C	ASTM D92	206
Flash Point °F	ASTM D92	403
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0
Gravity, °API	ASTM D287	33.40
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	30/0
High Temperature / High Shear Vis at 100°C, cP	ASTM D6616	6.01
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	2.72
Magnesium, wt. %	ASTM D5185	0.043
Molybdenum, wt. %	ASTM D5185	0.004
Nitrogen, wt. %	ASTM D4629	0.086
Noack Volatility, % loss	ASTM D6375	14.8
Phosphorus, wt. %	ASTM D5185	0.077
Pour Point °C (°F)	ASTM D5950	-45°C (-49°F)
Pumping Viscosity at (°C), cP	ASTM D4684	23,600 (-35)
Shear Stability, Final Viscosity in cSt	ASTM D6278	7.31
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8581
Sulfated Ash, wt. %	ASTM D874	0.92
Sulfur, wt. %	ASTM D4951	0.3
TBN, mgKOH/g	ASTM D2896	7.0
Viscosity @ 100°C cSt	ASTM D445	9.012
Viscosity @ 40°C cSt	ASTM D445	52.43
Viscosity Index	ASTM D2270	153
Zinc, wt. %	ASTM D5185	0.085

CONTAINER/BULK AVAILABILITY

6 Gallon Enviro Box®	Product Number - 65666
3/5 Quart	Product Number - 62941
6/1 Quart	Product Number - 62943
330 Gallon Tote	Product Number - 65579
55 Gallon Drum	Product Number - 62909

Available in Bulk

Information accurate as of April 4, 2020