



MAG1

Evolutionary Performance™

**PASSENGER CAR
MOTOR OILS**



Evolutionary Performance™

FMX TECHNOLOGY **FRICION MANAGEMENT FOR XTREME PROTECTION**

FULL SYNTHETIC

OEMs continue to evolve engine designs that demand more from motor oil. One brand has evolved right alongside – MAG 1®. MAG 1 with FMX® Technology provides unsurpassed protection and performance in every viscosity. Even our lowest viscosity oils protect better than thick oils of the past. Our advanced oil chemistry actually improves oil properties through time, retaining viscosity, friction and anti-wear benefits.



MAG 1 Full Synthetic Motor Oils are our purest and most advanced formulations. Benefits include:

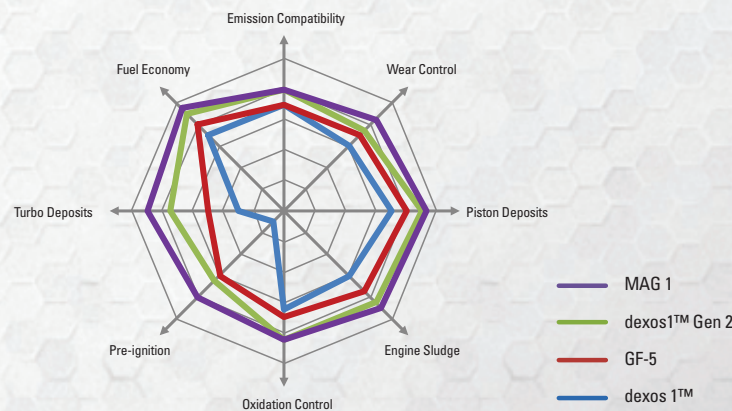
- Engineered to improve fuel mileage and to maximize horsepower and acceleration.
- Longer and better engine protection than conventional oils due to strong and uniform synthetic base oils and advanced molecules that provide a strong film barrier to control friction, resist wear and keep metal surfaces from coming into contact.
- Meets or exceeds API SN Plus, SN and ILSAC GF-5 requirements.
- Created for extreme hot and cold driving conditions: stop and go, frequent short trips, heavy loads and dusty conditions.
- MAG 1 dexos1™ Gen 2 approved motor oils meet or exceed GM dexos1™ specifications for worldwide requirements for all GM automotive gasoline engines currently in use. The oils are fully licensed by GM.

*MAG 1 Full Synthetic SAE 0W-20 and SAE 5W-30 are dexos1™ Gen 2 approved motor oils.

**Excluding MAG 1 Full Synthetic SAE 10W-30 Motor Oil.



MAG 1 dexos1™ Approved Motor Oils meet or exceed GM dexos1™ specifications for worldwide requirements for all GM automotive gasoline engines currently in use. dexos1™ Gen 2 supercedes GM 6094M and GM 4718M.



PACK SIZES

	Pack Size	Product #
Full Synthetic SAE 0W-16*	3/5 Quart	69364
	6/1 Quart	61794
Full Synthetic SAE 0W-20*	3/5 Quart	65828
	6 Gallon**	66077
	55 Gallon	65830
	330 Gallon	65832
Full Synthetic SAE 5W-20*	6/1 Quart	61792
	3/5 Quart	64192
	6 Gallon**	65445
	55 Gallon	64101
Full Synthetic SAE 5W-30*	330 Gallon	65474
	6/1 Quart	61790
	3/1 Gallon	69146
	3/5 Quart	64193
Full Synthetic SAE 5W-30*	6 Gallon**	65446
	55 Gallon	64876
	330 Gallon	65476
	6/1 Quart	61788
Full Synthetic SAE 10W-30*	3/5 Quart	64194
	55 Gallon	64883

CLAIMS

	Full Syn SAE 0W-16	Full Syn SAE 0W-20	Full Syn SAE 5W-20	Full Syn SAE 5W-30	Full Syn SAE 10W-30
API SN Plus	★	★	★	★	★
API SN	★	★	★	★	★
API SM		●	●	●	●
API SL		●	●	●	●
API SJ, SH, SG, SF		●	●	●	●
dexos1™ Gen 2		★		★	
Chrysler MS-6395		●	●	●	●
Chrysler MS-10797			●		
ILSAC GF-5		★	★	★	★
ILSAC GF-4		●	●	●	●
Ford WSS M2C945-A, M2C930-A			●		
Ford M2C153			●		
GM 6094M		●	●	●	●
GM 4718M		●		●	●

★ = Approved ● = Meets Requirements

TYPICAL PHYSICAL PROPERTIES

Properties	Test Method	Full Synthetic SAE 0W-16	Full Synthetic SAE 0W-20	Full Synthetic SAE 5W-20	Full Synthetic SAE 5W-30	Full Synthetic SAE 10W-30
Boron, wt. %	ASTM D5185	0.023	0.023	0.018	0.023	0.018
Calcium, wt. %	ASTM D5185	0.135	0.135	0.132	0.135	0.132
Cold Cranking Simulator at (°C), cP	ASTM D5293	5050 (-30)	5800 (-35)	4099 (-30)	4400 (-30)	3884 (-25)
Color	ASTM D1500	3	3	3	3	3
Flash Point °C	ASTM D92	226	226	208	227	210
Flash Point °F	ASTM D92	439	438.8	406.4	440.6	410
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0	0/0	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	5/0	0/0	10/0	0/0
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0	0/0	0/0
Gravity, °API	ASTM D287	35.09	35.66	34.58	34.93	33.86
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	20/0	20/0	10/0	15/0	20/0
High Temperature/High Shear Vis at 100°C, cP	ASTM D6616	5.2	5.76	6.14	6.9	7.17
High Temperature/High Shear Vis at 150°C, cP	ASTM D5481	2.4	2.7	2.67	3.2	3.04
Magnesium, wt. %	ASTM D5185	0.059	0.059	0.043	0.059	0.043
Molybdenum, wt. %	ASTM D5185	0.0079	0.0079	0.004	0.0079	0.004
Nitrogen, wt. %	ASTM D4629	0.104	0.104	0.086	0.104	0.086
Noack Volatility, % loss	ASTM D6375	14.28	13	11.7	12	8.2
Phosphorus, wt. %	ASTM D5185	0.076	0.076	0.077	0.076	0.077
Pour Point °C (°F)	ASTM D5950	-45°C (-49°F)	-45°C (-49°F)	-45°C (-49°F)	-45°C (-49°F)	-42°C (-44°F)
Pumping Viscosity at (°C), cP	ASTM D4684	15,500 (-35)	21,000 (-40)	12,500 (-35)	15,000 (-35)	13,900 (-30)
Shear Stability, Final Viscosity in cSt	ASTM D6278	6.6	7.5	7.8	9.4	8.99
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8494	0.8465	0.852	0.8502	0.8557
Sulfated Ash, wt. %	ASTM D874	0.9	0.9	0.92	0.9	0.92
Sulfur, wt. %	ASTM D4951	0.3	0.3	0.3	0.3	0.3
TBN, mgKOH/g	ASTM D2896	7.9	7.9	7	7.9	7
Viscosity @ 40°C cSt	ASTM D445	36.08	44.59	49.86	62.09	61.71
Viscosity @ 100°C cSt	ASTM D445	7.09	8.475	8.918	10.91	10.14
Viscosity Index	ASTM D2270	163	170	160	169	151
Zinc, wt. %	ASTM D5185	0.085	0.085	0.085	0.085	0.085

*Available in Bulk **Enviro Box®



Evolutionary Performance™

FMX TECHNOLOGY **FRICION MANAGEMENT FOR XTREME PROTECTION**

FULL SYNTHETIC
EUROPEAN FORMULA



MAG 1® Full Synthetic European Motor Oil is specially formulated for gasoline and diesel-fueled European cars, including those with turbocharged engines. It is made from 100% pure synthetic base oil and our most advanced additive technology, so it provides our best, longest-lasting engine protection, fuel efficiency, strength, and cleanliness.

MAG 1 Full Synthetic European Motor Oil is our purest formulation and provides outstanding fuel economy. It delivers unsurpassed protection and performance, including the following benefits:

- Engineered to improve fuel mileage and to maximize horsepower and acceleration, especially in higher rpm and turbocharged engines.
- Created for extreme hot and cold driving conditions: stop and go, frequent short trips, heavy loads and dusty conditions.
- Longer and better engine protection than conventional oils due to strong and uniform synthetic base oils and advanced molecules that provide a strong film barrier to control friction, resist wear and keep metal surfaces from coming into contact.

PACK SIZES	Pack Size	Product #
	Full Synthetic European SAE 0W-40 A3/B4*	6/1 Quart
Full Synthetic European SAE 5W-30 C3*	6/1 Quart	63278
	3/1 Gallon	69142
	55 Gallon	63282
Full Synthetic European SAE 5W-30 C3 VW 507*	6/1 Quart	66540
	3/1 Gallon	69144
	55 Gallon	66544
Full Synthetic European SAE 5W-40 A3/B4*	6/1 Quart	62836
	3/1 Gallon	69140
	55 Gallon	64880
	330 Gallon	67696

CLAIMS	Full Syn European SAE 0W-40 A3/B4	Full Syn European SAE 5W-30 C3	Full Syn European SAE 5W-30 C3 VW 507	Full Syn European SAE 5W-40 A3/B4
	API SN	★	★	★
API SM	●	●		●
API SH, SG, SF, SE, SD, SC	●	●		●
API CF		○		
ACEA C3		●	●	
ACEA A3/B3 and A3/B4	●	○		●
MB 226.5		○		
MB229.3/229.5	●			●
MB 229.31		●		
MB 229.51		●	●	
BMW LL-01	●			●
BMW LL-04		●	●	
VW 501 01				●
VW 502 00/505 00	●	●	●	●
VW 505 01		●		
VW 504 00/507 00			●	
OPEL GM-LL-B-025	●			●
Renault 0710/0700	●	●		●
Porsche A40	●	●	●	●

★ = Approved ● = Meets Requirements ○ = Suitable for Use

TYPICAL PHYSICAL PROPERTIES

Properties	Test Method	Full Synthetic European SAE 0W-40 A3/B4	Full Synthetic European SAE 5W-40 A3/B4	Full Synthetic European SAE 5W-30 C3	Full Synthetic European SAE 5W-30 C3 VW 507
Boron, wt. %	ASTM D5185	0.007	0.007	0.007	0.0
Calcium, wt. %	ASTM D5185	0.26	0.26	0.1836	0.1625
Cold Cranking Simulator at (°C), cP	ASTM D5293	5815 (-35)	6083 (-30)	5627 (-30)	6028 (-30)
Color	ASTM D1500	2	2	2	3
Gravity, °API	ASTM D287	35.42	33.98	34.64	34.29
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	3.7	3.7	3.56	3.58
Nitrogen, wt. %	ASTM D4629	0.089	0.089	0.095	0.1120
Noack Volatility, % loss	ASTM D6375	9	10	10	9.6
Phosphorus, wt. %	ASTM D5185	0.092	0.092	0.08	0.0762
Pour Point °C (°F)	ASTM D5950	-45°C (-49°F)	-45°C (-49°F)	-45°C (-49°F)	-45°C (-49°F)
Pumping Viscosity at (°C), cP	ASTM D4684	24,600 (-40)	28,400 (-35)	22,234 (-35)	22,000 (-35)
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8477	0.8551	0.8517	0.8535
Sulfur, wt. %	ASTM D4951	0.19	0.19	0.2	0.2194
TBN, mgKOH/g	ASTM D2896	10.3	9.8	8.0	7.0
Viscosity @ 100°C cSt	ASTM D445	12.8	13.18	12.02	12.36
Viscosity @ 40°C cSt	ASTM D445	75.09	77.27	70.01	70.4
Viscosity Index	ASTM D2270	172	173	170	172
Zinc, wt. %	ASTM D5185	0.102	0.102	0.088	0.0825

*Available in Bulk



Evolutionary Performance™

HIGH MILEAGE
SYNTHETIC BLEND



MAG 1® High Mileage Synthetic Blend Motor Oil is specially formulated to extend engine life for vehicles that have already exceeded 75,000 miles. It conditions seals, helps to prevent leaks, features superior oxidation stability, and provides extra protection against sludge, deposit buildup, and high temperatures. Contains superior additives and properties that outperform conventional motor oils.

Delivers the following benefits:

- Minimizes oil consumption and maximizes power output.
- Meets and exceeds U.S. and import car and light truck warranty requirements for all automotive gasoline engines currently in use.
- Resists thermal breakdown and decreases 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.

FMX TECHNOLOGY **FRICTION MANAGEMENT FOR XTREME PROTECTION**

PACK SIZES

	Pack Size	Product #
High Mileage Synthetic Blend SAE 5W-20*	6/1 Quart	64829
	3/5 Quart	66734
	6 Gallon**	65452
	55 Gallon	64831
	330 Gallon	69202
High Mileage Synthetic Blend SAE 5W-30*	6/1 Quart	64835
	3/5 Quart	66732
	6 Gallon**	65451
	55 Gallon	64837
	330 Gallon	67694
High Mileage Synthetic Blend SAE 10W-30*	6/1 Quart	64839
	3/5 Quart	67180
	6 Gallon**	65665
	55 Gallon	62910
High Mileage Synthetic Blend SAE 10W-40*	6/1 Quart	64841
	3/1 Gallon	69148
	55 Gallon	00618

CLAIMS

	High Mileage Synthetic Blend SAE 5W-20	High Mileage Synthetic Blend SAE 5W-30	High Mileage Synthetic Blend SAE 10W-30	High Mileage Synthetic Blend SAE 10W-40
API SN Plus	★	★	★	★
API SN	★	★	★	★
API SM	●	●	●	●
API SL	●	●	●	●
API SJ, SH, SG, SF	●	●	●	●
Chrysler MS-6395	●	●	●	
Chrysler MS-10797	●			
ILSAC GF-5	★	★	★	
ILSAC GF-4	●	●	●	
Ford WSS M2C945-A, M2C930-A, M2C153	●	●		
GM 6094M	●	●	●	

★ = Approved ● = Meets Requirements

TYPICAL PHYSICAL PROPERTIES

Properties	Test Method	High Mileage Synthetic Blend SAE 5W-20	High Mileage Synthetic Blend SAE 5W-30	High Mileage Synthetic Blend SAE 10W-30	High Mileage Synthetic Blend SAE 10W-40
Boron, wt. %	ASTM D5185	0.018	0.018	0.018	0.018
Calcium, wt. %	ASTM D5185	0.132	0.132	0.132	0.132
Cold Cranking Simulator at (°C), cP	ASTM D5293	5835 (-30)	6100 (-30)	5050 (-25)	6500 (-25)
Color	ASTM D1500	3	3	3	3
Flash Point °C	ASTM D92	206	204	206	208
Flash Point °F	ASTM D92	402.8	399.2	402.8	406.4
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0	0/0
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0	0/0
Gravity, °API	ASTM D287	33.3	33.36	31.42	31.14
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	30/0	20/0	20/0	20/0
High Temperature / High Shear Vis at 100°C, cP	ASTM D6616	6.05	6.89	7.09	-
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	2.71	3.16	2.97	3.96
Noack Volatility, % loss	ASTM D6375	14.7	14.3	14.4	11
Magnesium, wt. %	ASTM D5185	0.043	0.043	0.043	0.043
Molybdenum, wt. %	ASTM D5185	0.004	0.004	0.004	0.004
Nitrogen, wt. %	ASTM D4629	0.084	0.086	0.086	0.086
Phosphorus, wt. %	ASTM D5185	0.077	0.077	0.077	0.077
Pour Point °C (°F)	ASTM D5950	-45°C (-49°F)	-45°C (-49°F)	-42°C (-44°F)	-39°C (-38°F)
Pumping Viscosity at (°C), cP	ASTM D4684	24,000 (-35)	29,000 (-35)	15,400 (-30)	29,600 (-30)
Shear Stability, Final Viscosity in cSt	ASTM D6278	7.31	8.5	8.58	11.5
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8586	0.8583	0.8685	0.87
Sulfated Ash, wt. %	ASTM D874	0.92	0.92	0.92	0.92
Sulfur, wt. %	ASTM D4951	0.3	0.3	0.3	0.3
TBN, mgKOH/g	ASTM D2896	7	7	7	7
Viscosity @ 40°C cSt	ASTM D445	51.92	66.07	65.28	110.1
Viscosity @ 100°C cSt	ASTM D445	8.92	11.05	10.17	15.62
Viscosity Index	ASTM D2270	153	159	142	150
Zinc, wt. %	ASTM D5185	0.085	0.085	0.085	0.085

*Available in Bulk **Enviro Box®



Evolutionary Performance™

FMX TECHNOLOGY **FRICION MANAGEMENT FOR XTREME PROTECTION**

SYNTHETIC BLEND



Synthetic Blend 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.

PACK SIZES	Pack Size	Product #
	Synthetic Blend SAE 5W-20*	6/1 Quart
3/5 Quart		62941
6 Gallon**		65666
55 Gallon		62909
330 Gallon		65579
Synthetic Blend SAE 5W-30*	6/1 Quart	61652
	3/5 Quart	62937
	6 Gallon**	65667
	55 Gallon	60181
Synthetic Blend SAE 20W-50* Racing	330 Gallon	65580
	6/1 Quart	62888

CLAIMS		Synthetic Blend SAE 5W-20	Synthetic Blend SAE 5W-30
	API SN Plus	★	★
API SN	★	★	
API SM	●	●	
API SL	●	●	
API SJ, SH, SG, SF	●	●	
Chrysler MS-6395	●	●	
Chrysler MS-10797	●	●	
ILSAC GF-5	★	★	
ILSAC GF-4	●	●	
Ford WSS M2C945-A, M2C930-A, M2C153	●	●	
GM 6094M	●	●	

★ = Approved ● = Meets Requirements

TYPICAL PHYSICAL PROPERTIES				
Properties	Test Method	Synthetic Blend SAE 5W-20	Synthetic Blend SAE 5W-30	Synthetic Blend SAE 20W-50 Racing
Boron, wt. %	ASTM D5185	0.018	0.018	0.0318
Calcium, wt. %	ASTM D5185	0.132	0.132	0.297
Cold Cranking Simulator at (°C), cP	ASTM D5293	5850 (-30)	6119 (-30)	6255 (-15)
Color	ASTM D1500	3	3	4.5
Flash Point °C	ASTM D92	206	215	-
Flash Point °F	ASTM D92	402.8	419	-
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	-
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	-
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	-
Gravity, °API	ASTM D287	33.4	33.32	30.36
High Temperature Foaming, static foam	ASTM D6082 (Opt. A)	30/0	20/0	-
High Temperature / High Shear Vis at 100°C, cP	ASTM D6616	6.01	6.94	-
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	2.72	3.14	5.63
Magnesium, wt. %	ASTM D5185	0.043	0.043	-
Molybdenum, wt. %	ASTM D5185	0.004	0.004	0.0114
Nitrogen, wt. %	ASTM D4629	0.086	0.086	-
Noack Volatility, % loss	ASTM D6375	14.8	14.2	-
Phosphorus, wt. %	ASTM D5185	0.077	0.077	0.11
Pour Point °C (°F)	ASTM D5950	-45°C (-49°F)	-45°C (-49°F)	-
Pumping Viscosity at (°C), cP	ASTM D4684	23,600 (-35)	28,400 (-35)	-
Shear Stability, Final Viscosity in cSt	ASTM D6278	7.31	8.5	-
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8581	0.8585	0.8742
Sulfated Ash, wt. %	ASTM D874	0.92	0.92	-
Sulfur, wt. %	ASTM D4951	0.3	0.3	-
TBN, mgKOH/g	ASTM D2896	7	7	-
Viscosity @ 40°C cSt	ASTM D445	52.43	66.92	167.3
Viscosity @ 100°C cSt	ASTM D445	9.012	11.11	20.1
Viscosity Index	ASTM D2270	153	159	139
Zinc, wt. %	ASTM D5185	0.085	0.085	0.126

*Available in Bulk **Enviro Box®



Evolutionary Performance™

FMX TECHNOLOGY **FRICION MANAGEMENT FOR XTREME PROTECTION**

CONVENTIONAL



MAG 1® Conventional Motor Oils are formulated for older vehicles and/or high-temperature climates, if thicker oil is preferred. It also delivers the following benefits:

- Reduced friction for excellent protection against engine wear.
- High resistance to viscosity and thermal breakdown.
- 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.

PACK SIZES

	Pack Size	Product #
Conventional SAE 10W-30*	6/1 Quart	61648
	3/5 Quart	62939
	2/2.5 Gallon	00502
	5 Gallon	00504
Conventional SAE 10W-40*	6/1 Quart	61650
	3/1 Gallon	69136
	55 Gallon	62849
Conventional SAE 20W-50*	6/1 Quart	61654
	3/1 Gallon	69138
	55 Gallon	62851
SAE 30*	6/1 Quart	61646
	2/2.5 Gallon	00402
SAE 40*	55 Gallon	64877
	6/1 Quart	63200

CLAIMS

	Conventional SAE 10W-30	Conventional SAE 10W-40	Conventional SAE 20W-50	SAE 30	SAE 40
API SN Plus	★	★	★		★
API SN	★	★	★	★	★
API SM	●	●	●	●	●
API SL	●	●	●	●	●
API SJ, SH, SG, SF	●	●	●	●	●
Chrysler MS-6395	●				
ILSAC GF-5	★				
ILSAC GF-4	●				
GM 6094M	●				

★ = Approved ● = Meets Requirements

TYPICAL PHYSICAL PROPERTIES

Properties	Test Method	Conventional SAE 10W-30	Conventional SAE 10W-40	Conventional SAE 20W-50	SAE 30	SAE 40
Boron, wt. %	ASTM D5185	0.018	0.018	0.018	0.018	0.018
Calcium, wt. %	ASTM D5185	0.132	0.132	0.132	0.132	0.132
Cold Cranking Simulator at (°C), cP	ASTM D5293	4000 (-25)	4300 (-25)	7014 (-15)	-	-
Color	ASTM D1500	3	3	3	3	3
Flash Point °C	ASTM D92	206	208	240	210	-
Flash Point °F	ASTM D92	402.8	406.4	464	410	-
Foam Seq. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0	0/0	0/0
Foam Seq. II (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0	0/0	0/0
Foam Seq. III (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0	0/0	0/0	0/0
Gravity, °API	ASTM D287	32.37	32.94	29.63	29.85	28.77
High Temperature Foaming, static foam	ASTM D6082 (Opt A)	20/0	20/0	10/0	10/0	0/0
High Temperature / High Shear Vis at 100°C, cP	ASTM D6616	7.04	-	-	-	-
High Temperature / High Shear Vis at 150°C, cP	ASTM D5481	3.08	4.02	4.85	3.38	4.02
Magnesium, wt. %	ASTM D5185	0.043	0.043	0.043	0.043	0.043
Molybdenum, wt. %	ASTM D5185	0.004	0.004	0.004	0.004	0.004
Nitrogen, wt. %	ASTM D4629	0.086	0.086	0.086	0.086	0.086
Noack Volatility, % loss	ASTM D6375	14.5	11.7	5.1	6.1	3.7
Phosphorus, wt. %	ASTM D5185	0.077	0.077	0.077	0.077	0.077
Pour Point °C (°F)	ASTM D5950	-42°C (-44°F)	-39°C (-38°F)	-33°C (-27°F)	-33°C (-27°F)	-33°C (-27°F)
Pumping Viscosity at (°C), cP	ASTM D4684	15,900 (-30)	33,800 (-30)	21,900 (-15)	-	-
Shear Stability, Final Viscosity in cSt	ASTM D6278	8.54	11.5	15.15	-	-
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8635	0.8605	0.8782	0.877	0.8829
Sulfated Ash, wt. %	ASTM D874	0.92	0.92	0.92	0.92	0.92
Sulfur, wt. %	ASTM D4951	0.3	0.3	0.3	0.3	0.3
TBN, mgKOH/g	ASTM D2896	7	7	7	7	7
Viscosity @ 40°C cSt	ASTM D445	63.85	96.2	169.8	87.96	127.1
Viscosity @ 100°C cSt	ASTM D445	10.35	14.83	19	10.94	13.61
Viscosity Index	ASTM D2270	150	161	127	110	103
Zinc, wt. %	ASTM D5185	0.085	0.085	0.085	0.085	0.085

*Available in Bulk



Evolutionary Performance™

MAG 1® motor oils, lubricants and chemicals are designed to keep pace with today's engine demands, requiring lighter viscosities and increased power densities. It's the only brand with FMX® Technology System, which meets the difficult challenges of effectively balancing performance, strength and durability.

THE MEANING OF EVOLUTIONARY PERFORMANCE™

Today's engines, machinery and equipment are evolving rapidly as OEMs push for more power density, lighter viscosity oil and increased fuel or fluid efficiency. MAG 1 is leading the way in this new evolution, based on the science of advanced additives and powerful molecular structures. It's all part of our exclusive FMX Technology System that boosts performance on many levels under the most severe operating conditions.

It means, despite lower viscosities, MAG 1 still delivers extraordinary performance, strength and durability, in every grade. Even the thinnest MAG 1 oils and fluids perform better than thicker oils of the past.

MAG 1 engine oils and lubricants are chemically formulated to deliver a higher level of performance that rises to the challenge of ever-increasing demands and developments by automotive, heavy duty truck and industrial equipment manufacturers.



PERFORMANCE

MAG 1 delivers unsurpassed protection to control friction and wear well beyond standard industry requirements. It can also help extend engine life and improve the performance of all types of vehicles, trucks, machinery, and equipment.



STRENGTH

MAG 1 is bolstered by FMX Technology, which provides a very strong oil film that shields engines, parts and machinery at multiple points of contact and fights friction between rotating parts.



DURABILITY

MAG 1 protects as well on the last day as it does on the first. Even under the most extreme operating conditions, it retains viscosity and withstands heat and shearing.



EXTREME CONDITIONS

With a powerful, molecular-reinforced formulation, MAG 1 reduces engine and equipment stresses from high heat, cold starts, heavy loads, steep inclines, dusty roads, power density, and more.

WELL-EARNED REPUTATION

MAG 1 is the brand to trust no matter what kind of vehicle you drive or equipment you operate. Manufactured in the U.S.A. by one of the world's leading suppliers of lubricants and automotive chemicals, its solid reputation and record of performance over many years is a testament to the consistent, dependable quality of every MAG 1 product.



Manufactured by Warren Distribution, Inc.
950 S 10th St, Suite 300 | Omaha, NE 68108 | U.S.A.
Toll Free: 800-852-1235 | Main: 402-341-9397 | Spanish/International: 800-949-4645
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