



Evolutionary Performance™

Available in 5 Qts x 3 Case



Why MAG 1®

MAG 1® motor oils and lubricants 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.

FMX® TECHNOLOGY AT WORK

New demands and conditions call for new technology... like FMX. It's an exclusive performance-boosting system that works on many levels under the most severe operating conditions. Fortified by a new-generation molecular structure, MAG 1 provides a very powerful, anti-wear oil film barrier. Heat from extreme engine loads triggers a chemical reaction that transforms the molecules in the oil, causing them to bond tightly together in a multi-layered, friction-fighting mesh. These reinforced layers create an oil film that retains multiple points of contact with engine surfaces to prevent metal-to-metal friction between rotating parts. The result is more consistent, reliable performance in the most extreme weather and operating conditions.

Property	Method	Synthetic Blend			Full Synthetic						
		5W-20	5W-30	15W-40	0W-16	0W-20	5W-20	5W-30	5W-40	10W-30	MV ATF
Viscosity, cSt @40°C	D-445	48.1	61.4	116.1	38.8	44.6	44.9	62.1	77.3	62.9	33.6
Viscosity, cSt @100°C	D-445	8.41	10.28	15.66	7.55	8.48	8.33	10.91	13.18	10.28	7.41
Viscosity Index	D-2270	151.0	167.0	143.0	167.0	170.0	164.0	169.0	173.0	151.0	196.0
Specific Gravity @60°F	D-1250	0.855	0.855	0.873	0.843	0.847	0.847	0.846	0.855	0.850	0.852
Flash Point, COC, °C (°F)	D-92	220 (428)	220 (428)	224 (435)	226 (439)	226 (439)	228 (442)	227 (441)		225 (437)	216 (420)
Pour Point, °C (°F)	D-97	-45 (-49)	-45 (-49)	-36 (-33)	-45 (-49)	-45 (-49)	-45 (-49)	-45 (-49)	-45 (-49)	-42 (-44)	-51 (-60)
CCS, Cp	D-5293	4816 (-30°C)	5325 (-30°C)	5398 (-20°C)	5463 (-30°C)	5800 (-35°C)	3518 (-30°C)	4400 (-30°C)	6083 (-30°C)	4000 (-25°C)	
NOACK Volatility @700°F, % loss	D-5800	<11.1	<11.7	<10	<14.3	<13	<10.3	<12	<10	<5.2	
Total Base Number (TBN)	D-2896	7.0	7.0	10.0	7.0	7.9	7.0	7.9	9.8	7.0	
Sulfate Ash, wt %	D-4929	0.71	0.71	<1.0	0.90	0.90	0.71	0.90		0.71	