

Mighty Engine Guard High Mileage oils have ingredients designed to enhance the condition of older engines. Additives like conditioners, seal swell agents, antioxidants, detergents and wear or friction modifiers. Typically, they also include a viscosity modifier that are designed to reduce a lubricant's change in viscosity when subjected to changes in temperature. These oils need to stay thicker longer to protect engine parts. The special additive package is created for higher mileage motors that need the extra components in the motor oil to maintain optimum performance for these conditions.

Features and Benefits



- Minimizes oil consumption and maximizes power output.
- 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.
- 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.
- Unsurpassed wear protection. Advanced molecules bond together to prevent metal-to-metal contact of rotating engine parts.
- Retains viscosity and prevents thermal breakdown.

 The oil excels even in the harshest conditions.



Available Package Sizes

Industry/OEM Specifications and Licenses

Viscosity	Bag N' Box	Drums	Totes	∂ Bulk
5W/20 High Mileage	✓	✓		*
5W/30 High Mileage	✓	✓		*

High Mileage Engine Oils

Typical Properties

			5.5
Title		Syn Blend HM 5W-20	Syn Blend HM 5W-30
Boron, wt. %	ASTM D5185	0.02	0.02
Calcium, wt. %	ASTM D5185	0.99	0.99
Cold Cranking Simulator at (°F), cP	ASTM D5293	5,000 (-30)	5,500 (-30)
Color	ASTM D1500	3	3
Flash Point °C	ASTM D92	206	204
Flash Point °F	ASTM D92	403	399
Foam Seq. III (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. I (Tendency/Stability), mL	ASTM D892 (Opt. A)	0/0	0/0
Gravity, °API	ASTM D287	32.37	33.44
High Temperature Foaming,			
static foam	ASTM D6082 (Opt. A)	30/0	30/0
High Temperature /			
High Shear Vis @ 100°C, cP	ASTM D6616	6.01	6.94
High Temperature /			
High Shear Vis at 150°C, cP	ASTM D5481	2.72	3.14
Magnesium, wt. %		0.059	0.059
Molybdenum, wt. %	ASTM D5185	0.0079	0.0079
Nitrogen, wt. %	ASTM D4629	0.087	0.087
Noack Volatility, % loss	ASTM D6375	14.8	14.2
Phosphorus, wt. %	ASTM D5185	0.077	0.077
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 D678	7.31	8.5
Specific Gravity @ 60°F (15.6°C)	ASTM D4052	0.8635	0.8579
Sulfated Ash, wt. %	ASTM D874	0.92	0.92
Sulfur, wt. %	ASTM D4951	0.3	0.3
TBN, mgKOH/g	ASTM D2896	7.0	7.0
Viscosity @100°C cSt	ASTM D445	8.738	10.78
Viscosity @ 40°C cSt	ASTM D445	51.33	63.51
Viscosity Index	ASTM D2270	152	163
Zinc, wt. %	ASTM D5185	0.085	0.085

Industry/OEM Approvals

Title	Syn Blend HM 5W-20	Syn Blend HM 5W-30
API SP with Resource Conserving	Approved	Approved
Chrysler MS-10797	Meets Requirements	-
Chrysler MS-6395	Meets Requirements	Meets Requirements
Ford WSS M2C945-A,		
M2C930-A, M2C153	Meets Requirements	-
GM 6094M	Meets Requirements	Meets Requirements
ILSAC GF-6A	Meets Requirements	Meets Requirements
Ford WSS M2C946-A, M2C929-A	-	Meets Requirements

*Check for availability.