



# HIGH MILEAGE MOTOR OIL

*Sinclair High Mileage Motor Oil is a premium quality multi-grade Motor Oil designed to provide superior all season protection for gasoline engines and to maximize engine life. Higher mileage engines perform differently than newer engines. They lose compression, have worn rings, valves do not seat tightly and gaskets become brittle and leak. This contributes to increased oil consumption, decreased engine performance and reduced gas mileage. Sinclair High Mileage Motor Oil contains seal conditioners to help prevent leaks while still meeting or exceeding most U.S. and import automobile manufacturers' warranty requirements for gasoline engines. Sinclair High Mileage Motor Oils carry the ILSAC GF-5 Certification Mark that meets the API Resource Conserving requirements.*



## APPLICATIONS

- Where API Performance Category SN, SM, SL, SJ, SH, SG, SF, SE or SD oils are recommended.
- In passenger car engines that require oils showing the ILSAC GF-5 Certification Mark
- In all turbocharged gasoline engines.
- In larger gasoline engines used in severe service, such as towing trailers, campers, etc.
- In older gasoline powered passenger car engines.

Sinclair High Mileage Motor Oil is licensed by the API for the SN Classification under the new CMA Code of Practice. This classification assures only the highest quality.

## PERFORMANCE

- Provides fast starting and quick oil pump ability.
- Formulated with additional cleaning agents that help reduce deposit formation to keep engine cleaner to restore lost horsepower.
- Guards against excessive wear especially in sensitive areas of the valve
- Contains a unique seal conditioning agent to preserve the elasticity of engine seals to prevent leaks
- Premium base oils and additives reduce consumption and resist thermal breakdown
- Reduces deposits in hot sections of the engine to prevent ring sticking and loss of power
- Safe for use in new and rebuilt engines
- Will not void new car warranties

**Sinclair High Mileage Motor Oil Meets**  
SN, SM, and SL, ILSAC GF-5



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## TYPICAL PHYSICAL PROPERTIES

| Viscosity Grade                                | METHOD             | TYPICAL RESULTS    |                     |
|--|--------------------|--------------------|---------------------|
|  |                    | High Mileage 5W-20 | High Mileage 10W-30 |
| Gravity, °API                                  | ASTM D287          | 32.33              | 32.37               |
| Specific Gravity @ 60°F (15.6°C)               | ASTM D4052         | 0.8637             | 0.8635              |
| Viscosity @ 40°C cSt                           | ASTM D445          | 51.33              | 64.78               |
| Viscosity @ 100°C cSt                          | ASTM D445          | 8.738              | 10.08               |
| Viscosity Index                                | ASTM D2270         | 149                | 141                 |
| High Temperature / High Shear Vis at 100°C, cP | ASTM D6616         | 6.01               | 7.04                |
| High Temperature / High Shear Vis at 150°C, cP | ASTM D4683         | 2.72               | 3.06                |
| Noack Volatility, % loss                       | ASTM D5800         | 14.7               | 13.5                |
| Color  | ASTM D1500         | 3                  | 3                   |
| Zinc, wt. %                                    | ASTM D5185         | 0.085              | 0.085               |
| Phosphorus, wt. %                              | ASTM D5185         | 0.077              | 0.077               |
| Calcium, wt. %                                 | ASTM D5185         | 0.19               | 0.19                |
| Sulfur, wt. %                                  | ASTM D4951         | 0.3                | 0.3                 |
| Boron, wt. %                                   | ASTM D5185         | 0.018              | 0.018               |
| Molybdenum, wt. %                              | ASTM D5185         | 0.004              | 0.004               |
| Sulfated Ash, wt. %                            | ASTM D874          | 0.92               | 0.92                |
| Nitrogen, wt. %                                | ASTM D4629         | 0.084              | 0.084               |
| Pumping Viscosity at (°C), cP                  | ASTM D4684         | 23,600 (-35)       | 16,800 (-30)        |
| Shear Stability                                | ASTM D6278         | 7.31               | 8.5                 |
| 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                 |
| High Temperature Foaming, static foam          | ASTM D6082 (Opt A) | 30/0               | 20/0                |
| Copper Strip Corrosion (3 hrs@100°C)           | ASTM D130          | 0                  | 0                   |
| TBN, mgKOH/g                                   | ASTM D2896         | 7                  | 7                   |

| Description                   | Pack Size  | Part #  | Each UPC        | Case UPC        | Case Dimensions                | Case Cube / Pallet Cube | Case Weight / Pallet Weight | Pallet Stack               |
|-------------------------------|------------|---------|-----------------|-----------------|--------------------------------|-------------------------|-----------------------------|----------------------------|
| High Mileage Motor Oil 5W-20  | 330 Gallon | 509-002 | N/A             | N/A             | L 48.000 x W 48.000 x H 49.000 | 65.333 / 65.333         | 2583.520                    | 1 Tote                     |
| High Mileage Motor Oil 10W-30 | 6/1 Quart  | 508-006 | 0 14168-01722 0 | 0 14168-01765 7 | L 9.500 x W 7.625 x H 9.625    | 0.403 / 68.194          | 12.480 / 1947.200           | 156 Cases (6 layers of 26) |
| High Mileage Motor Oil 10W-30 | 330 Gallon | 508-002 | N/A             | N/A             | L 48.000 x W 48.000 x H 49.000 | 65.333 / 65.333         | 2558.440                    | 1 Tote                     |

