



HIGH MILEAGE VEHICLE[®] MOTOR OIL

PRODUCT DESCRIPTION

PENNZOIL[®] HIGH MILEAGE VEHICLE[®] motor oil is formulated to meet the needs of vehicles that have accumulated more than 75,000 miles with its Active Cleansing Agents that continuously help prevent dirt and contaminants from turning into performance robbing deposits, helping keep your engine clean to maintain responsiveness.

PENNZOIL[®] HIGH MILEAGE VEHICLE[®] motor oil is blended to higher viscosity and lower volatility than our conventional oils to reduce oil consumption due to burn-off. PENNZOIL[®] HIGH MILEAGE VEHICLE[®] motor oil is blended to the higher end of the viscosity range, and incorporates a special seal-conditioning agent that helps reduce leaks from worn or stiff seals.

APPLICATION

PENNZOIL[®] HIGH MILEAGE VEHICLE[®] motor oil has been designed with the needs of higher mileage vehicles as a priority. PENNZOIL[®] HIGH MILEAGE VEHICLE[®] motor oil is suitable for all gasoline engines used in passenger cars and light trucks recommending an API SM oil in the appropriate viscosity grade. PENNZOIL[®] HIGH MILEAGE VEHICLE[®] motor oil meets or exceeds the current API Service SM and may be used in old or new vehicles. PENNZOIL[®] HIGH MILEAGE VEHICLE[®] motor oil is available in SAE 5W-20, SAE 5W-30, SAE 10W-30, SAE 10W-40 and SAE 20W-50 viscosity grades.

Product has not been tested to the fuel economy requirements of ILSAC GF-4 but meets engine and emission protection requirements of GF-4.

FEATURES

- Active Cleansing Agents
- Low volatility
- Seal-conditioning agent
- Higher viscosity

BENEFITS

- Actively helps keep high mileage engines clean
- Helps restore engine performance and extend engine life
- Helps condition engine seals
- Helps prevent engine leaks and oil burn off
- Provides enhanced protection for worn engine parts
- Helps reduce oil consumption

SPECIFICATIONS & APPROVALS

- Meets or exceeds API Service SM and may be used where prior API service categories are specified.

Health & Safety

Guidance on Health and Safety are available on the appropriate Material Safety Data Sheet, which can be obtained from your Pennzoil[®] representative.

Protect the environment

Take used oil to an authorized collection point. Do not discharge into drains, soil or water

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

TEST	METHOD	TYPICAL RESULTS				
Viscosity Grade		5W-20	5W-30	10W-30	10W-40	20W-50
API Service		SM	SM	SM	SM	SM
Gravity, °API	ASTM D-287	32.3	32.3	30.3	30.3	28.9
Specific Gravity @ 60°F(15.6°C)	ASTM D-287	0.864	0.86	0.87	0.87	0.88
Viscosity						
@ 40°C, cSt	ASTM D-445	51.9	74.1	80	110.6	190.6
@ 100°C, cSt	ASTM D-445	8.86	11.7	11.7	15.5	21.0
Viscosity Index	ASTM D-2270	150	157	138	148	130
Flash Point, °C	ASTM D-93	≥ 196	≥ 196	≥ 196	≥ 196	≥ 196
Pour Point, °C	ASTM D-97	-33	-33	-33	-30	-24
CCS Viscosity, cP (°C)	ASTM D-5293	5800	6,000 (-30)	6,100(-25)	6,150(-25)	7,040(-15)
MRV Viscosity, cP (°C)	ASTM D-4684	16,000 (-35)	21,700(-35)	19,900(-30)	23,200(-30)	38,000(-20)
HT/HS Viscosity, cP	ASTM D-4683	2.7	3.3	3.4	4.1	5.3
Noack Volatility, %	ASTM D-5800	14.5	14.2	13.7	13.4	5.0

These characteristics are typical of current production. While future production will conform to Shell's specifications, variations in these characteristics may occur. The information contained herein is subject to change without notice.