

# **PENNZOIL® START/STOP PROTECTION™ SAE 5W-30 FULL SYNTHETIC MOTOR OIL - MADE FROM NATURAL GAS**

## **TECHNICAL DATA SHEET**



Pennzoil® is the first motor oil made from natural gas, not crude. Pennzoil Start/Stop Protection™ SAE 5W-30 full synthetic motor oil with PurePlus Technology is designed for UNBEATABLE ENGINE PROTECTION.

### **PERFORMANCE, FEATURES & BENEFITS**

Pennzoil® is the first motor oil made from natural gas, not crude. Pennzoil Start/Stop Protection™ SAE 5W-30 full synthetic motor oil with PurePlus Technology is designed for UNBEATABLE ENGINE PROTECTION.

- Protects against damaging effects of frequent short trips or start/stop driving
- Provides unsurpassed anti-wear protection <sup>1</sup>
- Reduces deposits and sludge build up to improve engine performance <sup>2</sup>
- Optimized for modern stop/start engines <sup>1</sup>
- Provides wear protection for millions of stop starts <sup>3</sup>

<sup>1</sup> Based on Sequence IVA wear test using SAE 5W-30

<sup>2</sup> Based on Sequence IIH oxidation & deposit industry standard test and Sequence VH sludge test

<sup>3</sup> Based on internal data using taxi fleet trial

### **MAIN APPLICATIONS**

Pennzoil Start/Stop Protection™ SAE 5W-30 Full Synthetic Motor Oil with PurePlus™ Technology is recommended for use in all vehicles requiring the use of SAE 5W-30 viscosity grade engine oils under start/stop driving conditions.

Pennzoil Platinum® with PurePlus™ Technology can be mixed with other synthetic and mineral oils and is recommended for use in all vehicle applications under all driving conditions.

It is also suitable for use in modern direct injection turbocharged gasoline engines where it provides protection against damaging low-speed pre-ignition (LSPI).

Always consult your owner's manual for the correct viscosity grade and performance recommendation required for your vehicle.

### **SPECIFICATIONS, APPROVALS & RECOMMENDATIONS**

Meets or exceeds the following OEM requirements:

- Ford WSS-M2C946-A
- Chrysler MS-6395, MS-13340
- Ford WSS M2C946-B1

Exceeds the requirements of the following industry specifications:

- API SP
- API SP-Resource Conserving and all previous Categories
- ILSAC GF-6A and all previous ILSAC Standards

For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

To find the right Pennzoil® product for your vehicles and equipment, please consult [www.pennzoil.com](http://www.pennzoil.com) to look-up the right motor oil recommendation using our oil selector.

## **PENNZOIL® START/STOP PROTECTION™ SAE 5W-30 FULL SYNTHETIC MOTOR OIL - MADE FROM NATURAL GAS**

### **TYPICAL PHYSICAL CHARACTERISTICS**

Properties			Method	PENNZOIL® START/STOP PROTECTION™ SAE 5W-30 FULL SYNTHETIC MOTOR OIL
Viscosity Grade			SAE J300	5W-30
Service Category				API SP-Resource Conserving
ILSAC				GF-6A
Density		kg/m <sup>3</sup>	ASTM D4052	839
Flash Point		°C	ASTM D93	207
Pour Point		°C	ASTM D97	-48
Kinematic Viscosity	@ 40°C	cSt	ASTM D445	53.9
Kinematic Viscosity	@ 100°C	cSt	ASTM D445	9.8
Viscosity Index			ASTM D2270	170
CCS Viscosity	@-30°C	cP	ASTM D5293	4 480
MRV Viscosity	@-30°C	cP	ASTM D4684	10 600

These characteristics are typical of current production. While future production will conform to Pennzoil's® specification, variations in these characteristics may occur.

### **HEALTH, SAFETY & ENVIRONMENT**

#### **Health and Safety**

PENNZOIL® Start/Stop Protection™ SAE 5W-30 Full Synthetic Motor Oil is unlikely to present any significant health or safety hazard when properly used in the recommended application and good standards of personal hygiene are maintained.

Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <https://www.epc.shell.com>

#### **Protect the Environment**

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

### **ADDITIONAL INFORMATION**

#### **Advice**

Advice on applications not covered here may be obtained from your Shell or Shell Lubricants distributor representatives or Shell technical helpdesk.