

PENNZOIL PLATINUM[®] 0W-20

FULL SYNTHETIC MOTOR OIL WITH PUREPLUS[™] TECHNOLOGY

TECHNICAL DATA SHEET



Pennzoil Platinum[®] with PurePlus[™] Technology is a first of its kind full synthetic motor oil made from natural gas and designed for COMPLETE PROTECTION.

PERFORMANCE, FEATURES & BENEFITS

PurePlus[™] Technology is our patented, revolutionary gas-to-liquid process that converts natural gas to first-of-its-kind extremely high quality full synthetic base oil. Because our base stock is made from natural gas, it is crystal clear with fewer of the impurities found in crude oil, the start for many other traditional & synthetic motor oils. From that pure, clear base we add our unique Active Cleansing Agents to create Pennzoil Platinum, a motor oil designed for COMPLETE PROTECTION, without compromise:

- * **CLEANER PISTONS** - Based on Sequence IIIG piston deposit test using SAE 5W-30
- * **BETTER FUEL ECONOMY** - Fuel economy measurements made using CAFÉ cycle under FTP75. Avg of 550 extra miles based on mixed city/highway miles and US avg of 13,476 miles driven per year with 4.1% better MPG vs dirty engine. Source fhwa.dot.gov, 2011. Follow OEM recommended oil drain intervals.
- * **PROTECTS HORSEPOWER**
- * **UNSURPASSED WEAR PROTECTION** - Based on Sequence IVA wear test using SAE 5W-30
- * **EXCELLENT PERFORMANCE IN EXTREME TEMPERATURES**

MAIN APPLICATIONS

Pennzoil Platinum[®] 0W-20 Full Synthetic Motor oil with PurePlus[™] Technology is recommended in vehicles calling for SAE 0W-20 motor oils (Toyota and Honda in particular) and some hybrid vehicle applications.

Always consult your owner's manual for the correct viscosity choice and specification grade of oil required. Viscosity recommendations often allow a range of viscosities based on local temperatures.

SPECIFICATIONS, APPROVALS & RECOMMENDATIONS

Exceeds the requirements of the following industry specifications:

- API SN and all previous categories
- ILSAC GF-5
- Exceeds Chrysler MS-6395

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

TYPICAL PHYSICAL CHARACTERISTICS

| <i>Properties</i> | <i>Method</i> | <i>Pennzoil Platinum® 0W-20 Full Synthetic Motor oil with PurePlus™ Technology</i> |
|----------------------|-------------------|--|
| SAE Viscosity Grade | SAE J300 | 0W-20 |
| API Service Category | | SN |
| ILSAC | | GF-5 |
| ACEA | | - |
| Density | g/cm ³ | 0.838 |
| Flash Point | °C | ASTM D93 224 |
| Pour Point | °C | ASTM D97 -48 |
| Viscosity | @ 40°C cSt | ASTM D445 45.3 |
| Viscosity | @ 100°C cSt | ASTM D445 8.3 |
| Viscosity Index | | ASTM D2270 168 |
| CCS Viscosity | @ -30°C cP | ASTM D5293 5,650 (-35) |
| MRV Viscosity | @ -35°C cP | ASTM D4684 14,100 (-40) |
| Noack Volatility | % | ASTM D5800 10.8 |

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

HEALTH, SAFETY & ENVIRONMENT

Health and Safety

This product 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 Material Safety Data Sheet (MSDS), which can be obtained from <http://epc.shell.com>

Protect the Environment

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

ADDITIONAL INFORMATION

Advice

To find the right Pennzoil product for your vehicles and equipment, please consult www.pennzoil.com to look-up the right motor oil recommendation using our oil selector.

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