Technical Data Sheet

PENNZOIL PLATINUM® FULL SYNTHETIC MOTOR OIL

DESCRIPTION

Pennzoil Platinum® full synthetic engine oil with superior Active Cleansing Agents continuously attacks potential and stubborn deposits to help keep the engine clean. It also contains special protective additives for our ultimate engine protection that exceeds USA and European industry standards like ILSAC GF-4, API SM and ACEA performance. Pennzoil Platinum® is designed to provide our ultimate cleansing under the most severe driving style or conditions to maximize engine responsiveness.

FEATURES

- Superior Active Cleansing Agents *
- Cleans up to 46% of existing sludge **
- Continues to clean existing sludge in the second oil change
- All standard grades of Pennzoil Platinum® are engineered with our unique Adaptive Molecules. These molecules are designed to:
    - Maintain viscosity control under high heat
    - Prevent viscosity loss due to shearing by reforming continuously
    - Withstand extreme pressures at critical points by clustering together, acting like microscopic shock absorbers to absorb the impact
- Superior clean up to our conventional and synthetic blend formulations
- Unsurpassed wear protection***
- Full synthetic performance to resist oil breakdown and development of deposits
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BENEFITS and APPLICATIONS

- Actively keeps engine clean
- Our ultimate protection against high-temperature deposits that can harm your engine
- Our ultimate protection against viscosity breakdown
- Fast lubrication at extremely low temperatures making start up easy and less draining on the battery
- Lower oil consumption under high temperature conditions
- Pennzoil Platinum® is recommended for high performance applications demanding our best oil such as GM Corvette and Acura RDX Turbocharged engines
- 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. Applications include:
  SAE 0W-20 – Recommended in some hybrid vehicle applications and a limited number of low temperature applications and some newer vehicles
  SAE 5W-20 – Many current and recent OEM recommendations including many 2001 and later Ford and Honda, and later Chrysler, Nissan and Toyota applications
  SAE 5W-30 – Many of the remaining US and Japanese vehicle recommendations including General Motors, Suzuki, Subaru, Hyundai
  SAE 10W-30 – Several specialty and truck applications for different manufacturers. This was the predominant grade of oil in the mid-1990s and is still recommended for some higher temperature applications.
  SAE 5W-50 – May be recommended for some performance and older vehicles and in some higher temperature applications
  SAE 15W-50 – May used in some high performance applications where very low temperatures are not encountered
- Pennzoil Platinum® is also available in several grades meeting specifications for cars from European manufacturer's. See separate data sheets for each Pennzoil Platinum® European Formula product. Pennzoil Platinum® European Formula

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*Compared to our conventional and synthetic blend motor oils
**Based on a severe sludge clean-up test using SAE 5W-30
***Based on Sequence IVA using SAE 5W-50 and 0W-30 engine oils

SAE 5W-40, Pennzoil Platinum® European Formula SAE 0W-30, Pennzoil Platinum® European Formula Ultra SAE 5W-30, and Pennzoil Platinum® European Ultra Diesel SAE 5W-30.

SPECIFICATIONS & APPROVALS

Pennzoil Platinum® exceeds:

- North American warranty requirements for U.S., European and Japanese cars and light trucks with gasoline and gasoline turbo-charged engines where API SM and earlier API categories are specified (all grades)
- North American warranty requirements for U.S., European and Japanese cars and light trucks with diesel engines where API CF oils are specified (10W-30, 5W-50, 15W-50)
- ILSAC GF-4Energy Conserving performance standard (0W-20, 5W-20, 5W-30 & 10W-30)
- Meets the most advanced emissions and fuel economy standards in the US gasoline powered engines.
- Approved to Chrysler MS 6395Q (5W-20, 5W-30, 10W-30)
- Meets Ford WSS M2C930-A (5W-20) and WSS-M2C929-A (5W-30)
- Approved to GM 6094M specification (SAE 5W-20, 5W-30 and SAE 10W-30)
- Approved to GM 4718M specification for Corvette (5W-30 and 10W-30)
- Approved to Acura HTO-06 for turbo-charged applications (5W-30)
- Meets demanding ACEA requirements

TYPICAL PHYSICAL AND CHEMICAL PROPERTIES
PENNZOIL PLATINUM® FULL SYNTHETIC MOTOR OIL

TEST	METHOD	TYPICAL RESULTS			
Pennzoil Platinum®		**0W-20**	**5W-20**	**5W-30**	**10W-30**
Viscosity Grade.	SAE J300	0W-20	5W-20	5W-30	10W-30
API Service		SM	SM	SM	SM/CF
ILSAC		GF-4	GF-4	GF-4	GF-4
ACEA		A1-02	A1-02	A5/B5-04	A5/B5-04*
Gravity, °API	ASTM D-287	34.8	34.38	33.8	33.3
Specific Gravity @ 60°F(15.6°C)	ASTM D-287	0.851	0.852	0.856	0.859
Viscosity					
@ 40°C, cSt	ASTM D-445	42.6	46.84	57.5	63.4
@ 100°C, cSt	ASTM D-445	8.39	8.48	10.3	10.5
Viscosity Index	ASTM D-2270	175	160	169	154
Flash Point , °C	ASTM D-93	224	224	224	224
Pour Point, °C	ASTM D-97	-48	-45	-39	-33
MRV viscosity, cP (°C)	ASTD D-4684	17,500 (-40)	9,700 (-35)	14,800 (-35)	10,900 (-30)
CCS Viscosity, cP (°C)	ASTM D-5293	4840 (-35)	4,250 (-35)	5,150 (-35)	4,570 (-30)
HT/HS Viscosity, cP	ASTM D-4683	2.6	2.6	3.1	3.15
Noack Volatility, %	ASTM D-5800	14	13.2	12.5	9.7

TEST	METHOD	TYPICAL RESULTS	
Pennzoil Platinum®		**5W-50**	**15W-50**
Viscosity Grade.	SAE J300	5W-50	15W-50
API Service		SM	SM
ACEA		A3/B4-04	A3/B4-04
Gravity, °API	ASTM D-287	33.7	32.5
Specific Gravity @ 60°F(15.6°C)	ASTM D-287	0.857	0.863
Viscosity			
@ 40°C, cSt	ASTM D-445	106	143
@ 100°C, cSt	ASTM D-445	17.8	21.4
Viscosity Index	ASTM D-2270	186	175
Flash Point , °C	ASTM D-93	224	224
Pour Point, °C	ASTM D-97	-42	-33
MRV viscosity, cP (°C)	ASTD D-4684	24,000 (-35)	13,900 (-25)
CCS Viscosity, cP (°C)	ASTM D-5293	4980 (-30)	4070 (-20)
HT/HS Viscosity, cP	ASTM D-4683	4.1	5.1
Noack Volatility, %	ASTM D-5800	13.3	7.6

*Meets engine protection requirements

Values listed are typical, while normal to production some variations occur. All products will meet Pennzoil's specifications.

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