



## PRODUCT INFORMATION & DATA SHEET

### PRINCE® SS1 SAE 5W-40

The Nonpareil Synthetic Motor Oil.

PRINCE® SS1 is a high-performance synthetic motor oil fulfilling stringent requirements of the current API SP specification which is suitable for application in newer generation turbocharged direct injection (TGDI) engines, with unique synthetic agents to neutralize acids and minimize deposits formation to prevent the caused of turbo coking, the excellent cleaning properties as well work on high-mileage engine protection with reliable carbon contamination and sludge removal in all crucial engine components.

SS1 motor oil is fortified with outstanding anti-friction and anti-wear package that allow better drivability, moving parts wear protection and fuel saving potential compared to common semi-synthetic motor oils. It contains appropriate VI improver and shear-stable additives to maintain optimum viscosity and minimize shear loss to retain lubrication performance at a wide range of operating temperatures.

SS1 provides comprehensive protection on timing chain and avoids catastrophic engine failure by increased premature ignition protection (LSPI).

This motor oil meets or even exceeds the following specification standards:

API SP, ACEA A3/B4, Daimler MB 229.3/ 229.5, Ford WSS-M2C917-A, PSA B71 2294, Renault RN0700/ RN0710, VW 501.01/ 502.00/ 505.00

Some of the benefits of using this motor oil:

- A multi-use synthetic motor oil developed for gasoline, natural gas and diesel (without the latest exhaust reduction system) engines applications.
- An API SP specified motor oil offering improved protection over API SN on modern gasoline vehicles running with latest timing chain, turbocharger, direct fuel injection and idle-stop systems.
- Compliance to turbocharged gasoline direct injection (TGDI) engines by safeguarding against engine damage and preserving horsepower.
- Contains anti-friction and anti-wear additives to minimize metal-to-metal wear, prevent compression loss and extend the service life of engine.
- Excellent thermal and oxidation stability minimize oil thickening and prevent oil breakdown due to very high working temperatures.
- Exceptional cleaning and dispersant additives reduce the formation of carbon deposits, varnish and sludge particularly essential in high-mileage engines.
- Good fluid mobility and sub-zero temperature pumpability ensures quicker oil circulate and penetration to avoid wear in the morning as well as traffic idling.
- Low evaporation tendency ensures lower oil burnt and consumption, able to maintain oil pressure level under all driving modes.
- Tested safe on the latest turbocharger, Three-way catalysts (TWC) and sealing materials.

## Areas of application

Applicable in new generation and high-mileage gasoline, natural gas and diesel (API CF) engines generation, with engine designs including natural aspirated, turbocharged, direct/indirect injection, multi-valve, VVT in passenger cars, SUVs and light-duty trucks.

Tested safe to use with catalytic converters in gasoline engines.

The current API SP is backward compatible with previous API specifications.

## Typical properties

<u>SAE Viscosity</u>		<b>5W-40</b>
Viscosity Index (VI)	ASTM D2270	152
Viscosity at 100 °C; mm <sup>2</sup> /s	ASTM D445	14.5
Viscosity at 40 °C; mm <sup>2</sup> /s	ASTM D445	89.3
Density at 15 °C; kg/m <sup>3</sup>	ASTM D4052	861.0
HTHS Viscosity at 150 °C; cP	ASTM D4683	4.1
Flash Point; °C	ASTM D92	234
Pour Point; °C	ASTM D97	-32

## Service recommendations

Follow the oil drain interval required by the respective manufacturers. Observe the owner's manual booklet. Recommend to flush before add in new oil. Change oil filter at time of oil change.

## Commercially available product compatibility

Our synthetic motor oil is compatible with fully synthetic, synthetic, semi-synthetic and conventional motor oils. Peak performance is guaranteed only upon using alone without mixing with other motor oils. Our motor oil products are designed and developed with appropriate additive package. Hence, aftermarket oil additive products are not recommended for used alongside.

## Product availability

This product may not be available locally. Contact your local distributor.

The information show herein is subject to change without noticed. The product indicated here have been developed by PRINCE LUBRICANTS for use in the areas of applications shown. We reserve all right to alter the characteristics and product properties to align with continually technical development.