



YOKOHAMA / **IMPROVE**

TECHNICAL DATA SHEET | TDS

SAE 5W-20

DI-3 | API SN PLUS | ILSAC GF-5 | FULLY SYNTHETIC ENGINE OIL

PRODUCT DESCRIPTION

YOKOHAMA IMPROVE SAE 5W-20 DI-3 is a fully synthetic engine oil developed for gasoline direct-injection and turbocharged engines where SAE 5W-20 is specified. Its low-viscosity formulation is designed to support fuel-efficient operation while maintaining a protective lubricating film and promoting reliable oil circulation during cold starts.

A balanced base oil and additive system helps control wear, oxidation and deposits to support engine cleanliness. API SN Plus performance requirements place particular emphasis on protection against low-speed pre-ignition (LSPI), which can affect certain turbocharged gasoline direct-injection engines.

APPLICATIONS

Developed for passenger cars, light-duty gasoline vehicles and compatible hybrid engines using SAE 5W-20 motor oil. Applications include naturally aspirated and turbocharged gasoline engines with API SN Plus / SN Resource Conserving or ILSAC GF-5 lubrication requirements.

PERFORMANCE SPECIFICATIONS

API	SN Plus / SN RC	ILSAC	GF-5
General Motors	dexos1 Gen 2	Chrysler	MS-6395
Fiat	9.55535-CR1	Ford	WSS-M2C945-A
Toyota / Lexus	SFU	Honda / Acura	SFU
Hyundai / Kia	SFU	Nissan / Infiniti	SFU

TYPICAL TECHNICAL CHARACTERISTICS

PROPERTY	TEST METHOD	TYPICAL VALUE
SAE Viscosity Grade	SAE J300	5W-20
Kinematic Viscosity at 40°C (mm²/s)	ASTM D445	46.97
Kinematic Viscosity at 100°C (mm²/s)	ASTM D445	8.53
Viscosity Index	ASTM D2270	162.5
Density at 15°C (g/cm³)	ASTM D4052	0.844
Flash Point, COC (°C)	ASTM D92	234
Pour Point (°C)	ASTM D97	-46

Note: The values shown in this table are typical values and do not constitute product specifications. Minor variations may occur between production batches due to normal manufacturing tolerances.