HAFA

TECHNICAL DATA SHEET

FREEWAY INITIAL F 5W-20 SAE 5W-20

SYNTHETIC FUEL ECONOMY ENGINE OIL

APPLICATIONS

FREEWAY INITIAL F 5W-20 is a premium fully synthetic engine oil specifically developed for **Ford** engines requiring the **Ford WSS-M2C948-B** specification. It has been specially formulated for the latest generation Ford gasoline engines, including the **1.0L EcoBoost three-cylinder** engine.
FREEWAY INITIAL F 5W-20 is also suitable for gasoline and diesel engines requiring a **Fuel Economy SAE 5W-20** lubricant meeting the **ACEA C5** specification. In addition, it is suitable for most **Jaguar** and **Land Rover** gasoline engines (excluding supercharged V6 and V8 engines) thanks to its compliance with **STJLR 03.5004**.

PERFORMANCE

Classifications :	ACEA C5-23 API SN / SN-RC / CF	ACEA A1/B1-12 ILSAC GF-5
Specifications :	FORD WSS-M2C948-A STJLR 03.5004-16	FORD WSS-M2C948-B

CUSTOMER BENEFITS

FUEL ECONOMY • EXCELLENT RESISTANCE

- Outstanding lubricating properties provide exceptional resistance to high temperatures and oxidation, reducing wear and preventing deposit formation.
- Excellent oil film strength ensures reliable protection while improving cold-start performance and reducing engine friction.
- Low viscosity (SAE 5W-20) helps maximize fuel economy.

***Warning:** Some engines are not designed for this type of lubricant. Always consult the vehicle owner's manual before use.*

CHARACTERISTICS

	Method	Units	Values
Density at 20°C	-	-	*0.849*
Viscosity at 100°C	*ASTM D445*	*mm²/s*	*8.3*
Viscosity at 40°C	*ASTM D445*	*mm²/s*	*45.1*
Viscosity index	*ASTM D2270*	-	*161*
TBN	*ASTM D2896*	*mg KOH/g*	*8.2*
Pour point	*ASTM D97*	*°C*	*-33*
Flash point	*ASTM D93*	*°C*	*187*

The values shown above are typical characteristics and are provided for information only.
Version of 01/07/2026

CERTIFIED LR ISO 9001

RECOMMENDATION

Shelf life: 36 months when stored in tightly sealed original packaging under normal storage conditions.
Storage conditions: Store at ambient temperature, protected from water, dust and moisture. Do not store above **50°C**, and avoid prolonged exposure to direct sunlight, extreme cold or significant temperature fluctuations.

HEALTH, SAFETY & ENVIRONMENT

Health and safety recommendations are provided in the **Safety Data Sheet (SDS)**, available upon request and on the manufacturer's website.
This product must only be used for its intended purpose. Dispose of used product responsibly and in accordance with local environmental regulations.