

# APOLLO FE

## FULL SYNTHTETIC ENGINE OIL

### Description

Apollo FE is a full synthetic engine oil for gasoline, LPG and light diesel engines with or without turbos and catalytic converter where a fuel economy oil is recommended. It has been developed with special additives, which provide optimal protection during extended drain intervals.

Apollo FE ensures cleaner combustion, enhanced Fuel Economy (M111 test has shown over 3% of fuel saving) and low emission levels. Special additives keep the oil and engine parts free from sludge and deposits. It guarantees rapid and stable lubrication and high thermal stability under heavy duty conditions in a broad temperature range.

The quality lubricant ensures an extended drain as well as low oil consumption.

### Benefits

- Lower fuel consumption
- Very high Viscosity Index and a high resistance against shearing
- Fast cold start properties which results in less wear due to a stable lubricant film
- Great dispersant and detergent properties, which warrants a clean operation
- Very good lubrication film at very high working temperatures
- Very good Anti-Wear, anti-corrosion and anti-foam properties.

Apollo FE 0W-20 is specially suitable for modern hybrid cars such as Toyota, Honda and Lexus.

### Performance levels



#### SAE 0W-20

- API SN/SN-RC
- ILSAC GF-5
- GM LL-A-025, GM 6094M, GM 4718M



#### SAE 5W-20

- API SN/CF
- Ford WSS-M2C948-B



#### SAE 0W-30

- API SL/CF
- ACEA A5/B5
- VW 503.00/506.00/506.01



#### SAE 5W-30

- API SL/CF
- ACEA A5/B5
- Ford WSS-M2C-913-D, 913-C/B/A and 912-A
- Renault RN0700

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## Typical Properties

SAE		0W-20	5W-20	0W-30	5W-30
		LUB003010	LUB003017	LUB003001	LUB003004
Density 20 °C	kg/m <sup>3</sup>	844	849	841	848
Viscosity 40 °C	cSt	43.6	42.7	54.7	53.3
Viscosity 100 °C	cSt	8.5	8.0	10.0	9.6
Viscosity CCS -35 °C	cP	<6200		<6200	
Viscosity CCS -30 °C	cP	<6600		<6600	
Viscosity Index		176	162	170	166
Pour Point	°C	-45	-36	-45	-45
Flash Point C.O.C	°C	202	205	200	205
TBN	Mg (KOH/g)	11	10.0	11.2	10.1
Operating Temperature	°C	-40/150	-30/150	-40/150	-30/150