



## LOCOMOTIVE POWER API SN ACEA C3

### FULLY SYNTHETIC

#### PRODUCT DESCRIPTION:

LOCOMOTIVE 5W-40 C3 is a high-performance engine oil with a wide area of application produced using HC synthetic oil and special additives. Developed specifically for modern passenger cars with or without extended maintenance intervals (WV/LongLife Service) and with exhaust after-treatment systems.

#### APPLICATION:

LOCOMOTIVE 5W-40 C3 has been developed specifically to meet the needs of modern petrol and diesel vehicles. It meets the requirements of many vehicle manufacturers and the ACEA C3 concerning a so-called low ash product at the same time. It is used in vehicles with exhaust after-treatment systems (DPF = Diesel Particulate Filter), as well as in vehicles with petrol and diesel engines, with or without turbocharging, according to the manufacturer's specification.

#### FEATURES & BENEFITS:

- Excellent engine cleanliness.
- The low sulphated ash, low phosphorus and sulphur content protects diesel particulate filters and catalytic converters.
- Excellent cold flow properties.
- Engine protection under a wide variety of operating conditions.
- Optimum power & performance under most severe driving conditions.
- Fully compatible with all emission control devices.
- Helps protect engine against wear and corrosion.
- Allows fuel consumption reduction and therefore minimizes greenhouse gases emissions.

#### PERFORMANCE LEVELS: Meets and Exceeds:

SAE	5W-40
ACEA-22	C3
API	SN
MB	229.31/229.51
VW	505 00/ 505 01
BMW	LL-04
PORSCHE	A40

#### TYPICAL PROPERTIES:

PARAMETERS	ASTM	UNIT	RESULT
Grade			5W-40
Kinematic Viscosity@ 104°F /40°C	ASTM D7042	cSt	90
Kinematic Viscosity@ 212°F /100°C	ASTM D7042	cSt	14.7
Viscosity Index	ASTM D2270	-	172
SP. Gravity @15°C/ 60°F	ASTM D4052	g/cm <sup>3</sup>	0.856
Flash Point	ASTM D92	°C	228
Pour Point	ASTM D97	°C	-39
TBN	ASTM D2896	mg KOH/g	8.2
CCS, (°C)	ASTM D5293	m.Pa.S	<6600(-30°C)

#### HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil into drains or the environment. Dispose to an authorized used oil collection point. For further Information on safety guidelines please refer to MSDS available on our website Locomotive.com