

MOTUL**SPECIFIC LL-04 5W-40****DPF****BMW Gasoline and Diesel engine oil
Approved BMW Long Life-04
100% Synthetic****TYPE OF USE**

Specifically designed for BMW and MINI cars fitted with Euro 4, 5 and 6 engines (M43CNG, M47/TU2, M57TU, M57TOP, M57TU2, M67TU...) requiring "Mid SAPS" lubricants with reduced content of Sulfated Ash ($\leq 0.8\%$), Phosphorus ($0.07\% \leq x \leq 0.09\%$) and Sulfur ($\leq 0.3\%$).

- **For Diesel engines fitted with Diesel Particulate Filter (DPF)**, MOTUL Specific LL-04 5W-40 must be used whatever the country. MOTUL Specific LL-04 5W-40 is also suitable for use in Diesel engines without Diesel Particulate Filter.
- **For Gasoline engines**, MOTUL Specific LL-04 5W-40 is recommended for use only in European Union countries, Switzerland, Norway and Liechtenstein. Outside those countries, an approved BMW LL-01 lubricant like MOTUL 8100 X-cess gen2 5W-40 is required, refer to BMW recommendation.

PERFORMANCES

STANDARDS	ACEA C3 API PERFORMANCE SN
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APPROVALS	BMW LL-04
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Engines compliant with Euro 4, 5 and 6 emission regulation are fitted with sensitive exhaust gas after treatment systems. Indeed, Sulfur and Phosphorus inhibit catalytic converters operation leading to inefficient exhaust gas treatment; and Sulfated Ash clogs DPFs leading to shorten regenerating cycle, quick oil aging, higher fuel consumption and engine power loss.

BMW Long Life-04 specification imposes severe constraints to the lubricant particularly due to Valvetronic and after treatment systems compatibility. It covers all BMW engines from 2004 and also all BMW engines before 2004. BMW LL-04 covers all the previous BMW specifications such as BMW LL-98 and BMW LL-01.

ATTENTION: BMW LL-04 product can be used for gasoline engines only in European Union countries, Switzerland, Norway and Liechtenstein. Outside those countries, a BMW LL-01 lubricant like MOTUL 8100 X-cess gen2 5W-40 is required. Refer to BMW recommendations.

MOTUL Specific LL-04 5W-40 fulfils all the specifications of BMW Long Life-04 standard of the BMW Group for BMW, MINI and ROLLS-ROYCE vehicles with no exceptions i.e. for models before 2019 and after 2019. For models up to 2019, i.e. until end of 2018 only, MOTUL 8100 X-clean 5W-40 can also be used.



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RECOMMENDATIONS

Drain interval: refer to manufacturers' recommendations and tune to your own use.
Before use always refer to the owner manual or handbook of the vehicle.

PROPERTIES

Viscosity grade	SAE J 300	5W-40
Density at 20°C (68°F)	ASTM D1298	0.846
Viscosity at 40°C (104°F)	ASTM D445	84.9 mm ² /s
Viscosity at 100°C (212°F)	ASTM D445	13.9 mm ² /s
HTHS viscosity at 150°C (302°F)	ASTM D4741	3.7 mPa.s
Viscosity Index	ASTM D2270	171.0
Pour point	ASTM D97	-38.0 °C / -36.0 °F
Sulfated Ash	ASTM D874	0.79 % weight
TBN	ASTM D2896	7.4 mg KOH/g
Flash point	ASTM D92	235.0 °C / 455.0 °F