



# THETIS series

## 5W-30 LSPI 12-FE

### Synthetic high-performance engine oil

High quality engine oil based on an innovative additive technology, which significantly reduces the level of ash-forming substances to protect the diesel particulate filter from impurities. Integrated with specially selected synthetic base oils, this product offers improved starting behaviour at cold temperatures and offers optimal protection from corrosion and deposits.

This fluid was specially designed for BMW gasoline & diesel engines requiring BMW LL-12 FE lubricants, and was developed to offer enhanced fuel economy properties and best possible protection against the risk of Low Speed Pre Ignition (LSPI).

### Properties and features

- Ensures longer life of diesel particulate filters (DPF) and other emission control systems
- Special formulation to prevent and minimize LSPI phenomena
- Improved cold start behaviour and fuel economy properties
- Excellent protection against wear and optimal lubrication safety thanks to an extremely resistant oil film even at high operating temperatures
- Extended oil drain intervals
- Reduces engine deposits and oxidation in the whole engine system

### Use

Synthetic motor oil of the newest additive technology specially developed for the use BMW engines requiring a fluid with BMW LL-12 FE specification. Due to its high-quality performance profile, it is suitable for use in vehicles of other brands where a fluid with ACEA C2, API SN and SN Plus specifications is required.

**Observe manufacturer's specifications and instructions before use.**

### Specifications / Performance level

ACEA C2  
API SN Plus

BMW LL-12 FE

Technical data	Unit	Method
Density at 15°C	0,850 g/cm <sup>3</sup>	ASTM D 1298
Viscosity at 40 °C	51 mm <sup>2</sup> /s	ASTM D 445
Viscosity at 100 °C	9.6 mm <sup>2</sup> /s	ASTM D 445
Viscosity index	176	ASTM D 2270
Viscosity at - 30°C (CCS)	4'800 cP	ASTM D 5293
HTHS-viscosity	3.0 mPa·s (cP)	CEC-L-36-A-97
TBN	7.1 mgKOH/g	ASTM D 2896
Sulphated ash	0.7 % mass	ASTM D 874
Flash point C.O.C.	228 °C	ASTM D 92
Pour point	-42 °C	ASTM D 97
NOACK evaporation loss	10.8 % mass	CEC-L-40-A-93

### Health, safety and environment

ADR / SDR : Not dangerous

EU Waste List Code : 13 02 08