



UNITED ECO-P LONG LIFE

Product Description:

United ECO-P Long Life is a premium fully synthetic engine oil for passenger car, formulated with top grade polyalphaolefin PAO, Group III synthetic base fluid and new additives technology to meet the latest industry standards of API SP and ILSAC GF-6 for newer engines including turbocharged gasoline direct injection (TGDI) engines.

TGDI engines require increased protection against Low-Speed Pre-Ignition (LSPI) and timing chain wear. LSPI is common issue with turbocharged engines, it creates excessive pressures inside the engine's cylinders, which can cause engine damage. United ECO-P Long Life is specifically designed to mitigate LSPI and provide timing chain wear protection.

The benefits of PAO synthetic base stocks include excellent high viscosity index with low temperature fluidity and high resistance to oxidation as well as thermal degradation. These properties make PAO a good selection in temperature extremes, including high operating and low start-up temperatures.

Applications / Benefits:

- ▣ Particular suitable for the modern engine.
- ▣ Timing chain wear protection.
- ▣ Minimize the occurrence of LSPI.
- ▣ Better fuel economy and fuel efficiency.
- ▣ Improve wear and deposit control of the engine.
- ▣ Enhance piston cleanliness while maintaining sludge control.

Typical Characteristics:

Test Description	Method	0W-20	0W-30
SAE Viscosity Grade	SAE J 300	0W-20	0W-30
Specific Gravity @ 15 °C	ASTM D 4052	0.855	0.857
Flash Point, °C	ASTM D 92	212	216
Pour Point, °C	ASTM D 97	-42	-42
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	43.69	56.88
cSt @ 100°C	ASTM D 445	8.749	10.76
Viscosity Index	ASTM D 2270	185	183
TBN, mgKOH/g	ASTM D 2896	7.0	7.0
Color	ASTM D 1500	<3.0	<3.0
CCS, cP	ASTM D 5293	≤6200	≤6200
HTHS, cP	ASTM D 5481	≥2.6	≥2.9

Suggested for the following uses:

- API SP
- ILSAC GF-6
- Ford WSS-M2C962-A1*
- Ford WSS-M2C963-A1**

*Please note official claim apply to SAE 0W20, only

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