

LAUNCHER Ultra Supreme Fully Synthetic Motor Oil is formulated to outperform conventional oils and exceed API baseline performance testing standards on wear protection, engine sludge protection, piston cleanliness, low temperature performance, and oil loss prevention in gasoline/diesel engines and hybrid vehicles. LAUNCHER Ultra Supreme Fully Synthetic Motor Oil has been recommended and tested on new engines and high mileage vehicles.



APPLICATIONS

- Turbocharged gasoline direct injection, conventional gasoline-fueled and flex-fuel passenger cars, light trucks and sport utility vehicles, including gasoline-electric hybrids, especially when operating under severe conditions.
- Four-stroke cycle gasoline engines in other mobile or stationary equipment.

PERFORMANCE FEATURES AND BENEFITS

- Exceeds ILSAC GF-6 requirements for new cars under warranty.
- Helps protect against low speed pre-ignition (LSPI) in turbocharged gasoline direct injection engines (TGDI).
- Outstanding resistance to viscosity and thermal breakdown at high temperatures.
- Enhanced performance benefits at extreme temperatures compared with conventional engine oils.
- Protects against sludge and varnish formation.

RECOMMENDATIONS / SPECIFICATIONS

MEETS OR EXCEEDS :

API SP, SN and all API previous categories, ILSAC GF-6A, ACEA C3, Chrysler : MS-6395; Ford : WSS-M2C947-B1, BMW LL04 , MB 229.51 , VW 504.00507, PORSCHE C30. GM DEX051 (Gen 3), LANDROVER STJLR.03.5003

PROPERTIES

LAUNCHER Ultra Supreme Fully Synthetic Motor Oil is formulated with synthetic base stocks. The full synthetic formulation provides improved protection against viscosity breakdown and deposit formation at high temperatures; lower volatility for reduced oil consumption; and faster oil circulation at low temperatures for easier starting and better protection during cold starts when compared with conventional engine oils.

- Low volatility for reduced oil consumption.
- Protects against rust and bearing corrosion.
- Highly resistant to foaming.
- Excellent low temperature pumpability for protection during cold starts.
- Formulated to protect turbochargers and emission control system catalysts.

TYPICAL TECHNICAL PROPERTIES

	0W-16	0W-20	5W-20	5W-30	5W-40
Viscosity Grade	0W-16	0W-20	5W-20	5W-30	5W-40
PRODUCT CODE	LMO0W16FPW	LMO0W20FPW	LMO5W20FPW	LMO5W30FPW	LMO5W40FPW
Density at 15°C, g/ml, ASTM D4052	0.846	0.846	0.848	0.852	0.847
COLOR, ASTM 6045	3.0	0.848	0.852	0.853	3.0
Cold Cranking Viscosity (CCS), mPa s, ASTM D5293	5000 @-35°C	5900 @-35°C	3650@-30°C	4900@-30°C	5200@-30°C
Kinematic Viscosity at 40°C, mm ² /s, ASTM D445	37.3	45.2	45.4	63	86.22
Kinematic Viscosity at 100°C, mm ² /s, ASTM D445	7.3	8.5	8.7	11.1	14.60
Viscosity Index, ASTM D2270	163	168	165	167	177
Flash Point (COC), °C, ASTM D92	228	230	228	234	235
Pour Point, °C, ASTM D97	-42	-45	-42	-42	-45
Total Base Number, mg KOH/g, ASTM D2896	7.0	7.9	7.0	8.6	7.0
Sulfated Ash, wt%, ASTM D 874	0.9	0.9	0.9	0.9	0.8
High-Temperature/High-Shear Viscosity @ 150°C, cP, ASTM D4683	2.3	2.6	2.6	3.0	3.9
Phosphorus, wt %, ASTM D5185	0.077	0.077	0.077	0.077	0.077
Zinc, wt %, ASTM D5185	0.085	0.085	0.085	0.085	0.085

Note: These characteristics are typical of current production. While future production will conform to LAUNCHER'S specification, variations in these characteristics may occur.



Packing : 1L | 4L | 5L | 208L/Drum

Version : LL/TDS/GOGE/USFS/V1/02-01-2023

Health and Safety: This lubricant, when used in accordance with our recommendations and for the application for which it is intended, does not constitute any special hazard. A safety data file conforming to the requirements of current EC legislation is available from your local trade consultant