



# LAUNCHER MOTOR OIL

## PREMIUM SEMI SYNTHETIC

### API SN

LAUNCHER Premium Semi 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 Premium Semi Synthetic Motor Oil has been recommended and tested on new engines and high mileage vehicles.



#### APPLICATIONS

LAUNCHER Premium Semi Synthetic Motor Oils series are formulated to give you confidence of protection beyond that of conventional oils. Particularly recommended for Latest gasoline engine technologies, Passenger cars, SUV's, light trucks and vans Stop and Go City Driving, Normal to severe operating conditions, Turbo-Chargers and High Performance Engines.

#### PROPERTIES

LAUNCHER Premium Semi Synthetic Motor Oils series are high performance industry proven products so you can trust you will get the performance you want from your vehicle. Low friction semi-synthetic formulation increases engine efficiency and offers greater fuel economy and also helps to promote long engine life.

#### PERFORMANCE FEATURES AND BENEFITS

- Superior engine wear protection.
- Superior engine protection during start up.
- Reduces wear by controlling soot deposits.
- Minimizes sludge formation.
- Reduced high temperature engine deposits.
- Extension of engine's lifetime.

- Reduces wear due to advanced base oils.
- Provides improved fuel economy.
- Safe for wet clutch motorcycles.
- Suitable for hydraulically actuated injector .
- Delivers unsurpassed levels of protection across a variety of driving conditions and temperatures.

#### RECOMMENDATIONS / SPECIFICATIONS

##### MEETS OR EXCEEDS :

API SN AND ALL 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 DEX0S1 ( GEN 3), LANDROVER STJLR.03.5003

#### TYPICAL TECHNICAL PROPERTIES

Viscosity Grade	10W-30	10W-40	15W-40	20W-50
PRODUCT CODE	LMO10W30SN	LMO10W40SN	LMO15W40SN	LMO20W50SN
Density at 15°C, g/ml, ASTM D4052	0.867	0.867	0.875	0.878
Cold Cranking Viscosity(CCS), mPa s, ASTM D5293	6500@-25°C	6800@-25°C	4200@-20°C	4500@-15°C
Kinematic Viscosity at 40°C, mm <sup>2</sup> /s, ASTM D445	63	95	95.55	139.16
Kinematic Viscosity at 100°C, mm <sup>2</sup> /s, ASTM D445	10.4	14.3	14.45	17.9
Viscosity Index, ASTM D2270	154	155	157	143
Flash Point(COC), °C, ASTM D92	224	224	224	230
Pour Point, °C, ASTM D97	-36	-36	-36	-30
Total Base Number, mg KOH/g, ASTM D2896	10.2	10.2	10.2	10.2

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/PSS/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