



RAYSUN LIBERO X4

Passenger Car Motor Oil

Raysun LIBERO X4 series are high quality passenger car motor oils designed for older turbocharged and naturally aspirated gasoline powered passenger cars and diesel powered light duty vehicles. These are blended using selected premium quality base oils and performance additives to provide excellent engine protection. They are developed to exceed the performance requirements of API (American Petroleum Institute) SG/CD and are available in three viscosity grades viz. SAE 10W-30, SAE 15W-40 & SAE 20W-50.

Advantages

- Better thermo-oxidative stability minimizes deposits & sludge build-up
- Effective rust inhibitors retard formation of rust in critical engine parts
- Better antiwear technology minimizes engine wear to reduce maintenance costs
- Good Stay-in-grade performance ensures reliable lubrication even at higher load & operating temperatures

Applications

- Recommended for use in all modern high performance turbocharged and naturally aspirated gasoline
- They may also be used in older vehicles where an API service category SF or commercial category CC quality oil is recommended

Performance level

- API SG / CD



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SAE Viscosity Grades			ASTM Method	Specification
20W-50	15W-40	10W-30		
0.890	0.872	0.869	D 1298	Density @ 15°C, kg/l
18.30	14.30	10.90	D 445	Viscosity @ 100 °C, cSt.
123	138	140	D 2270	Viscosity Index
234	220	226	D 92	Flash Point, °C
-24	-27	-33	D 97	Pour Point, °C
5.70	5.70	5.70	D 2896	TBN, mg KOH/g
0.68	0.68	0.68	D 874	Sulphated Ash,%wt

Note: "All of the results are typical and the results of each batch are presented in the COA sheet."