

MAK AUTO XL CH-4

Premium multigrade diesel engine oil for 4 stroke Auto Rickshaws

MAK AUTO XL CH-4 is a diesel engine oil specially designed for lubrication of new generation 4 stroke Auto Rickshaws running on diesel fuel. This oil is blended from highly refined high viscosity index Group II plus base stocks and appropriate additive chemistry. It offers outstanding oxidation stability, excellent anti-wear performance, engine cleanliness and protection from rust and corrosion. It provides excellent lubrication to the engine components under challenging operating environments. MAK AUTO XL CH-4 provides longer engine life and reduced maintenance cost. This oil has good shear stability to control viscosity under high shear, high temperature operations.

Applications:

MAK AUTO XL CH-4 is suitable for use in 4-stroke diesel engines fitted to new generation auto rickshaws manufactured by PIAGGIO, BAJAJ, MAHINDRA etc. Be guided by OEM's recommendation for oil drain period.

Performance/ Benefits:

Resistance to Oxidation and Thermal Degradation – enhanced high temperature stability offers superior protection for the engine oil at high temperatures and controls sludge build-up and deposits formation.

Enhanced Engine Life – provides improved wear protection to critical components like cylinder liner, piston rings, valves, cams and other engine parts over wide range of operating temperatures. Enhances engine durability and reliability.

Engine Cleanliness – carefully selected detergency and dispersancy additives provides better soot handling capability, improved engine cleanliness and prevents the formation of harmful deposits in the engines.

Excellent Shear Stability – ensures viscosity control at high temperatures and high shear conditions. Provides wear protection over a wide temperature range.

Good TBN Retention – possess very good TBN retention properties over the entire oil life. Offers excellent protection against corrosive wear of engine components.

Reduced Oil Consumption – formulated with high quality base oils which possess lower volatility helps to ensure minimal oil consumption/ top-ups.

Performance Level/ Specification:

Meets the performance benchmarks of

• API CH-4

Characteristics	Method	Value
SAE Grade	SAE J300	15W-40
Color	Visual	Brown
Appearance	Visual	Clear
Density @29.5°C, g/cc	ASTM D1298	0.862
Kinematic Viscosity @40 ^o C, cSt	ASTM D445	101.8
Kinematic Viscosity @100 ^o C, cSt	ASTM D445	14.20
Viscosity Index	ASTM D2270	140
Copper Corrosion, 100 ^o C, 3 hrs.	ASTM D130	1a
Flash Point, ^o C	ASTM D92	240
Pour Point, ^o C	ASTM D97	-24
Foaming Tendency	ASTM D892	
a) Sequence I		Nil / Nil
b) Sequence II		10 / Nil
c) Sequence III		Nil / Nil

Storage & Handling:

The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing and store under protected storage conditions.

Health & Safety:

It is unlikely to be hazardous when properly used in recommended applications. Contamination of the oil from other oils, greases, chemicals, dirty water etc. can occur during the use. It should be avoided. Regular monitoring of the in-use product is recommended.