

MAK SPIROL LL 85W-140

Long life superior quality API GL-5 oil for axles of heavy commercial vehicles

MAK Spirol LL 85W-140 is a superior quality long life new generation multi grade gear oil meant for high drain period. It is formulated from high quality base stocks and advanced additive technologies. It has excellent extreme properties required for protection under sever load, speed and torque conditions. It is based on thermally stable additive technology that provides better oxidation stability and longer drain period. This lubricant is engineered for high performance in drive axles where extreme pressure performance and extended drain life are expected.

Applications:

MAK Spirol LL 85W-140 oil is recommended for use in rear axles of Heavy Commercial Vehicles/ off-highway equipment where OEMs recommend GL-5 type of oils. The oil provides long life and excellent lubrication of drive axles of bus, trucks and other commercial vehicles operating under high load, high torque conditions. As compared to market general GL-5 type oils MAK Spirol LL 85W-140 offers extended oil drain life of up to 72000 km in drive axles of commercial vehicles.

Performance/ Benefits:

Long Oil Life – resists the effects of oxidising agents, thermal degradation, prevents deposit formation and oil thickening. Offers extended drain interval when used in commercial vehicle manual transmissions

Superior Gear Teeth Protection – offers excellent protection of gears against wear. Reduces downtime and maintenance cost.

High Shear Stability – offers superior shear stability and provides excellent protection during the entire life of the lubricant.

High Resistance to Foaming – exhibits low foaming characteristics and maintains oil film for reduced wear.

Excellent Rust and Corrosion Protection – reduces corrosion wear and maintenance cost and enhances transmission system life.

Excellent Seal Compatibility – offers extended life of seal, minimum leakage and reduced contamination.

Low Temperature Lubrication – reduces wear and protects gears even at low ambient temperatures.

Performance Level/ Specification:

- API GL-5

Typical Physico-Chemical Data: MAK Spirol LL 85W-140

Characteristics	Method	Value
SAE Viscosity Grade	SAE J306	85W-140
Color	Visual	Dark Brown
Appearance	Visual	Clear and Bright
Density @15°C, g/cc	ASTM D 1298	0.8998
Kinematic Viscosity @40°C, cSt	ASTM D 445	305.75
Kinematic Viscosity @100°C, cSt	ASTM D 445	24.10
Viscosity Index	ASTM D 2270	100
Copper Corrosion, 100°C, 3 hrs.	ASTM D 130	1b
Flash Point, °C	ASTM D 92	220
Pour Point, °C	ASTM D 97	-12
Foaming (Tendency/Stability), ml	ASTM D 892	
Sequence I		NIL/ NIL
Sequence II		10/ NIL
Sequence III		NIL/ NIL

Storage & Handling:

The product should be stored inside. Keep it properly sealed to avoid contamination. Avoid freezing. Shelf life is 5 yrs. 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.