

MAK SPIROL LS 80W-90

Description

This is a multipurpose, heavy duty extreme pressure gear oil meant for limited-slip rear drive differentials. It contains a special additive required for limited-slip differential application. Limited-slip differential allow normal differentials action when going around turns. When a Wheel slips, they allow more torque to be transferred to the non-slipping wheel.

Application

The most common limited-slip differentials (mainly used in earth moving machinery) are of the cone of clutch type, MAK SPIROL LS 80W-90 is recommended for these types of differentials to prevent the clutches or cones form grabbing or chattering as they apply. Using regular gear oil can cause noise and rough operation that can dame parts.

Benefits

MAK SPIROL LS 80W-90 is specially formulated for final drives differential which utilize limited-slip clutches and function discs. These oils contain special friction modifiers and additives to eliminate "chatter" and other smooth performance throughout a variety of difficult traction situations.

Performance Level

API GL-5 ; MIL-L-2105D ; limited-slip requirements

MAK SPIROL LS 80W-90 grade is approved by M/s BEML for use in Axies of their Wheel Loader & Wheel Dozer models BL30, BL06, BL1420 / 14TH, BD 14W, BL54, BL40, BL3035, BD30W-1, BLO3, BL8H and BL9H.

Technical Specifications

Characteristics	ASTM	MAK SPIROL LS 80 W 90
Appearance	-	Clear & bright
Colour, Visual Observation	-	Dark Brown
Density @15°C, gm/ml	D-1298	0.8998
K.V at 100° C, cSt	D-445	15.4
Copper Corrosion @ 100° C for 3 hrs	D-130	1b
Flash Point, (COC), °C	D-92	222
Viscosity Index	D-2270	115
Pour Point, °C	D-97	-27
Foaming Tendency / Stability: Qty. of foam in ml	D-892	Nil/Nil
a) Sequence I		10/Nil
b) Sequence II		Nil/Nil
c) Sequence III		

All the mentioned values are typical which may vary from batch to batch.

Storage and Handling

- Indoor Storage is always preferable
- Barrels should be kept horizontally with bunk position at 3 O'clock 9 O'clock position
- Barrels should be kept away from dusty or heated areas.
- During handling any contact with dust must be avoided

Health & Safety

This grade is not hazardous under normal conditions of use. For further guidance Material Safety Data Sheet (MSDS) may be referred.

Advice

For any further advice on applications or otherwise, please contact the nearest Bharat Petroleum territory office or Technical Services department at the address given below.

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