



LS325

Lubricant Package Additives

**Lone Star
Enterprises**

Passenger Car Motor Oil

Description

LS325 is a high-performance additive package for formulating premium quality lubricant for passenger car, light-duty diesel & 4-stroke motorcycle engine oils. **LS325** is specifically designed to provide basic API performance claims from SG/CD through to the SL/CF at the most efficient market treat rates without the need for a booster package. **LS325** is designed to broad base oil coverage including severe market stocks for the Middle East and the Asia Pacific regions. Further flexibility is afforded with **LS325** having demonstrated JASO MA and JASO MB clutch friction of 4 stroke motorcycle performance.

Recommended Dosage

Performance Level	Multi grade , wt%
API SL / CF JASO MA	6.8
API SJ / CF JASO MA	5.3
API SG /CD	4.9

Typical Properties

Property	Unit	Value	Method
Density @ 15° C	kg/m ³	0.98 – 0.99	ASTM D4052
Flash Point (Open Cup)	° C	180 >	ASTM D92
Viscosity at 100° C	cSt	100 - 125	ASTM D445
Zinc	mass %	1.25 – 1.35	ASTM D6595
Phosphorus	mass %	1.1 – 1.3	ASTM D6595
Calcium	mass %	3.1 – 3.4	ASTM D6595
Total Base No.	mg KOH/g	115 - 125	ASTM D2896

Storage and Handling

This product can be blended using conventional equipment for blending finished fluids. Follow precautions normally taken for handling lube oil stocks. Do not heat over the maximum loading/unloading temperature. Avoid contact with water which can cause product degradation. Avoid high temperature contact with air which darkens product. Avoid contact with moist air. Tanks should have adequate agitation to avoid excessive skin temperatures. Dry conditions are essential since water may promote decomposition of the additive. Min Load/Unload Temp: 55 °C (131 °F) Max Load/Unload Temp: 65 °C (149 °F) Shelf Life Recommendation: 24 months @ ambient temperature

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LONE STAR EFFICIENT FORMULATION