



SUNOCO ZF ENGINE OILS

OVERVIEW

SUNOCO ZF ENGINE OILS are superior quality lower ash gas engine oils designed for use in railroad locomotive diesel engines, marine diesel engines, and other similarly designed stationary engines. Formulated with high detergency and Oronite's industry leading OLOA additive system, **SUNOCO ZF ENGINE OILS** minimize sludge and provide superior oxidation and thermal stability. Our non-zinc and non-chlorinated formula is designed for silver bearing protection and reduced reclamation costs, as well as deposit and particulate control.

FEATURES & BENEFITS

SUNOCO ZF ENGINE OILS are available in SAE 40 and 20W-40 viscosity formulations and are fully backwards compliant to older EMD and GE model year engines. Offering a reduction in harmful metallic elemental chemistry while still boosting product alkalinity, **SUNOCO ZF ENGINE OILS** are suitably equipped to handle modern emission reduction technology and increased lubricant loading. The high viscosity indexes allow for better oxidation control and shear stability, while maintaining exceptional deposit and particulate control. Our non-zinc and non-chlorinated formula is designed for silver bearing protection and reduced consumption (SAE 20W-40 grade), as well as deposit and particulate control.

APPLICATIONS

SUNOCO ZF ENGINE OILS are designed specifically for modern and classic railroad locomotive engines, marine engines, and other diesel engines that require a zinc-free additive system.

SPECIFICATIONS

LMOA GENERATION 7 • ELECTRO-MOTIVE DIESEL (EMD) • GENERAL ELECTRIC (GE) • EPA TIER IV

TYPICAL PROPERTIES

Product Code	7033	7103
SAE Viscosity	40	20W-40
Viscosity, cSt @ 40°C	141.1	149.0
Viscosity, cSt @ 100°C	14.5	15.1
Viscosity Index	101	101
Pour Point, °C	-9	-9
Flash Point, COC °F	268 (515)	268 (515)
Color	6.5	6.5
TBN	11	11
Chlorine	<0.0005	<0.0005
Zinc wt %	<0.0005	<0.0005
Calcium wt %	.3340	.3340