



RASALUS Zinc-Free RR OILS

Tesla Rasalus Zinc-Free Engine oils are basically railroad Diesel Engine Oil is an optimized formulation that will satisfy EPA emission requirements, the engine needs of lower sulfur fuels and emission control systems for both new and older locomotive engines. This formulation is zinc-free for the protection of silver bearings and chlorine free to reduce environmental and disposal impact. The balanced detergent, dispersant, and antiwear system allows this 13 TBN (Generation IV) and 17 TBN (Generation V) oils to provide superior soot, sludge, viscosity, and wear Control resulting in improved engine cleanliness, lower wear and particulate Emissions.

The advanced technology provides superior liner scuffing protection, reduced ring wear, and reduced piston deposits. Improved thermal and oxidative stability minimizes oil degradation, reduces sludge to provide long drain intervals and improved filter life.

Railroad Diesel Engine Oil provides the proper lubrication for 2-cycle and 4-cycle naturally aspirated low output and unrestricted use in high output turbocharged engines. This includes railroad, marine, and stationary engines where zinc free oils are required.

Specifications: EMD Generation V, GE Generation IV Long Life, LMOA Generation V, Alco, Baldwin, Fairbans-Morse engines and EPA Tier 3 and 4 and API CF/CF-II

Rasalus	4000	5000
SAE Grade	40	40
Cst at 40°C, D 7042	170	170
Cst at 100°C, D 7042	15	15
Viscosity Index, D 2270	90	90
COC Flash, D 92,°C	232	232
Pour Point, D97,°C	-23	-23
TBN, mg KOH/gm	13	17
Zinc, ppm, Less than	10	10
P.Code	1676	1677

Color Varies from Country to Country. Properties mentioned above are typical only and minor variations, which do not affect the product performances are to be expected in normal manufacturing. Advice and opinion noted herein are given in good faith and on the basis of the best information available, information is based on past history of the grade only and must not be construed as a guarantee of performance nor any legal liability is accepted by Tesla Corporation or any of its affiliates. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available with your nearest TESLA office or at www.teslalube.com. © Tesla Corporation, 2011

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