

Corvus Railroad Engine Oil

Dyna-Plex 21C® Corvus Railroad Engine Oil is formulated to meet the performance requirements of locomotive diesel engines designed around the strict EPA Tier 4 emission standards. This lubricant provides balanced performance incorporating complex detergents, advanced dispersants, and superior oxidation and wear inhibitors to effectively address the detrimental effects of lower oil consumption and engine modifications in new and remanufactured Tier 4, Tier 3, Tier 2+, Tier 1+ and Tier 0+ locomotives. This engine oil is zinc-free, and provides excellent protection of silver wrist pins and turbo charger bearings. In addition, this formulation has reduced SAPS (sulfated ash, phosphorus, and sulfur), and incorporates advanced dispersant technology providing improved cleanliness and deposit control. This product provides excellent protection against yellow metal corrosion and wear, as well as enhanced oxidation and thermal stability.

Dyna-Plex 21C Corvus Railroad Engine Oil meets the latest LMOA Lubricant Oil Classification, LMOA Generation 7, which supersedes previous LMOA classifications. It is designed to satisfy EMD and General Electric locomotive diesel engines, and backward compatible for older EMD and GE locomotive diesel engines, as well as legacy models from Bombardier, Detroit Diesel, ALCO, and Fairbanks Morse. This product is specifically recommended for railroad locomotive diesel engines, as well as other medium-speed stationary and marine diesel engines, as it meets the 184-drain interval by providing control of rocker box deposits and sludge formation.

<u>PROPERTY</u>	ASTM TEST	SAE	SAE
	METHOD	<u>40</u>	<u>20W-40</u>
Viscosity @ 40°C, cSt	D445	158.00	140.00
Viscosity @ 100°C, cSt	D445	15.20	15.20
Viscosity Index	D2270	98	110
Flash Point, COC, °C (°F)	D92	254 (490)	250 (482)
Pour Point, °C (°F)	D97	-12 (10)	-18 (0)
Color	D1500	4.0	4.0
Gravity, °API	D287	27.4	28.3
Sulfated Ash, % wt.	D874	1.15	1.15
Total Base Number (TBN)	D2896	11.0	11.0
Zinc, ppm	D4951	<10	<10
Molydenum, ppm	D4951	70	70
EMD Silver Corrosion Test GE Oxidation Corrosion Test GE Bronze Friction Test	PASS PASS PASS		

Corvus Engine Oil contains a non-chlorinated additive package.