

S-K Railroad & Marine Engine Oil 10 TBN

PRODUCT #650, 651

CAM2 S-K Railroad and Marine Engine Oil is a superior, Low Ash Heavy Duty engine oil formulated to address the emerging fuel and emission standards coming to large, medium speed locomotive, marine vessels, and electricpowered generators. It is formulated with a blend of stable synthetic and premium mineral base stocks for longlife performance in 2 and 4 stroke Gen 6 (and all previous category) engines used in a wide range of marine trunk piston, railroad, inland marine, mining and stationary engine applications. Patented non-chlorinated technology is future proof for Gen 7 emission requirements.

Oil contains a CAM2 S-K Railroad and Marine Engine stable Silver allow compatible thermally ashless additive package with an extremely shear-stable viscosity improver to protect under conditions of extreme heat in today's smaller engines which create more heat and pressure than previous generation. The ashless formulation is designed with no zinc nor chlorine to meet stringent government regulations. This also allows for use with alternate fuels such as distillates and asphaltenes. The protection afforded by this unique additive technology allows CAM2 S-K to provide protection beyond that of a normal SAE 40 grade lubricant by controlling film thickness on critical engine parts such as Top Ring pistons.

The combination of premium highly synthetic and refined mineral base oils eliminate formation wax allowing the engine to reduce emissions and oil consumption. These heavy weight base also drastically reduce volatility in high-temperature areas of the engine leaving thicker layers of the protective films which reduce wear and improve fuel economy. volatility also reduces soot and other deposits that collect to retard and place stress on internal engine components.

FEATURES

- Improved anti-wear protection: maintains film thickness under severe operating conditions for maximum engine performance
- Advanced dispersant technology: higher soot loading capability, addresses issues with lower oil consumption and longer oil sump residence time
- **Optimized TBN level and retention:** supports extended drains, formulated and OEM approved use with ultra low sulfur diesel fuel, reduced sulfated ash, enhanced particulate emission control (TBN can be optimized to customer's specific application)
- Improved thermal and oxidative stability: excellent engine cleanliness and sludge control, superior oil viscosity control, minimize oil degradation, effectively addresses increased locomotive utilization rates and power generation
- **Outstanding extreme temperature performance:** wide operating temperature range allows for quick start-up

RECOMMENDATIONS/SPECIFICATIONS

Recommended for use in medium speed, high output turbocharged late model distillate fueled engines such as EMD, GE, and Caterpillar, both two and four stroke, for use in:

- Military patrol vessels, high speed ferry/passenger vessels, racing boats and luxury yachts
- Life and rescue boat engines, emergency generators, auxiliary engines
- Marine gearing applications where FZG Level 12 is
- Fully compatible with conventional mineral oils and mineral oil systems
- Can be used in confidence in engines containing silver bearing components due to non-zinc formulation
- Generation 6 engines



CAM2 S-K Railroad and Marine Engine Oils

Property	Test Method ASTM -D	SAE 40	20W-40
Zinc, ppm	6481	<10	<10
Flash Point °C/ °F	92	216/420	216/420
Pour Point °C/ °F	97	-11/12	-22/-7
Low Temp Viscosity cP @-15		N/A	4815
Viscosity cSt @ 100°C	445	13.5	15.2
VI	2270	125	140
Color	1500	7	7
TBN	2896	10	10
Ash	874	<1.0	<1.0

Typical test data are average values only. Minor variations which do not affect product performance are to be expected during normal manufacturing.