



Tajhiz Niroo Zangan is a public stock company and manufacturer of various lubrication products, used in automotive, industrial and marine equipment, including gasoline and diesel engine oils, gear oils, hydraulic fluids, compressor oils, locomotive oils, greases, heavy-duty marine diesel engine oils, trunk piston oils, cylinder oils, antifreeze, ...



LOCOMOTIVE OIL

API CF/CF-2

Railroad Lubricant



SHETLAND*-CF series are high-performance, Zinc- and Chlorine-free locomotive oils, specially designed to provide excellent engine cleanliness and extended oil filter's lifetime. They are suitable for use in modern railroad diesel locomotive engines, employed in severe services. SHETLAND series are formulated from high-quality base stocks, and modern technology additive packages, supporting the performance requirements of the Locomotive Maintenance Officers Association (LMOA) generation 5, and API CF/CF-2. SHETLAND series are available in three viscosity grades; SAE 15W-40, SAE 20W-40, SAE 40. These products are recommended for use in railroad diesel locomotive engines, medium-speed two-cycle and four-cycle railroad engines, marine and stationary engines for power generation or off-shore drilling, requiring zinc-free oils.

Advantages

- Zinc-free formulation, protecting silver bearings against corrosion
- Exceptional detergency-dispersancy property, providing excellent engine cleanliness
- High thermal and oxidation stability, preventing sludge formation
- Reduction of fuel consumption
- Longer oil drain intervals
- Effective lubrication at lower temperatures

Locomotive Oil, API CF/CF-2

Specification	SAE Grade			ASTM Test Method
	15W-40	20W-40	40	
Viscosity @ 100 °C, cSt	15	15.5	15	D 445
Viscosity Index	128	115	100	D 2270
Flash Point, °C	222	225	240	D 92
Pour Point, °C	-27	-24	-18	D 97
TBN, mg KOH/g	17	17	17	D 2896
Density @ 15 °C, kg/m ³	890	895	903	D 1298
Sulphated Ash, %wt.	1.98	1.98	1.98	D 874
Zinc, ppm, Max	10	10	10	D 5158

*SHETLAND: A British breed of pony originating used as a draft horse