



SHELL CAPRINUS[®] XR OILS

High performance, zinc-free & chlorine-free railroad and marine engine oils

Product Description

Shell Caprinus[®] XR are premium quality, zinc-free, and chlorine-free railroad and marine engine oils with an established history of providing outstanding engine cleanliness. Shell Caprinus[®] XR oils are available in SAE 40 and SAE 20W-40 viscosity grades.

Applications

- suitable for medium speed two-cycle and four-cycle diesel engines, including:
 - EMD
 - Fairbanks-Morse
 - General Electric
 - ALCO
- other similar diesel engines used as auxiliary or main engines in marine service or as switching locomotives
- stationary engines requiring oils with API CF and API CD (obsolete) level performance

Features/Benefits

- formulated with a unique Shell additive system that is both zinc free and chlorine free
- provide excellent engine cleanliness, especially engine top decks
- provide excellent in service retention of Total Base Number (TBN). (Note: EMD and General Electric, as well as the LMOA, recognize that new oil TBN is not an indicator of an oil's performance and do not include TBN in their oil specifications)
- provide extended oil drain interval capability
- multigrade Shell Caprinus[®] XR 20w-40 contains a shear-stable viscosity index improver additive that helps provide reduced oil consumption and good fuel economy, allows for longer oil drain intervals through control of used oil viscosity increase in severe applications & provides good lubrication and oil flow at low temperatures and during engine warm-up

Approvals and Recommendations

- ElectroMotive Division of General Motors (EMD)
- General Electric as Generation 4 Long Life Oils
- Locomotive Maintenance Officers Association (LMOA) Generation 5
- Diesel DDC Series 149 engines under severe conditions
- API CF
- API CD (obsolete)

Typical Properties of Shell Caprinus® XR Oils

	Test Method	SAE Grade	
		40	20W-40
Product Code		54794	54793
Gravity, °API	D 1298	24.9	27.0
Density, API	At 15 C	0.908 Kg/l	0.920 Kg/l
Viscosity:			
@ 40°C, cSt	D 445	150	132
@ 100°C, cSt	D 445	15.0	15.5
Viscosity Index	D 2270	98	115
Flash Point, COC, °C (°F)	D 92	246 (480)	222 (435)
Pour Point, °C (°F)	D 97	-21(-10)	-24 (-11)
Neutralization No, TBN-E	D 2896	13.6	13.6
Sulfated Ash, wt%	D 874	1.46	1.46
Calcium, wt%	X-ray	0.43	0.43
Zinc, ppm	X-ray	< 10	< 10

Handling & Safety Information

For information on the safe handling and use of this product, refer to its Material Safety Data Sheet at <http://www.shell-lubricants.com/msds/>. If you are a Shell Distributor, please call **1+800-468-6457** for all of your service needs. All other customers, please call **1+800-840-5737** for all of your service needs. Information is also available on the World Wide Web: <http://www.shell-lubricants.com/>.

