



SHELL GADINIA[®] OILS

Lubricants for medium-speed marine diesel engines running on distillate fuels

Product Description

Shell Gadina[®] are premium quality diesel engine lubricants, specially designed for the most severe service main propulsion and auxiliary marine trunk piston engines burning distillate fuels having sulphur content up to 1% weight.. They also perform satisfactorily in smaller high speed engine units in fishing fleets, which normally operate under arduous conditions, often with small sump capacity.

Applications

- highly rated, medium speed, main propulsion and auxiliary trunk-piston marine diesel engines
- geared transmissions, turbochargers and variable pitch propellers
- oil lubricated stern tubes, deck machinery and other applications requiring an SAE 30 or 40 viscosity oil

Maintaining oil cleanliness - Normal purification and/or filtration equipment and practices for heavy duty crankcase lubricants, should be used for **Shell Gadina[®] Oils** to effectively handle solid contaminants and water. With centrifugal purification, 'water-washing' to remove strong acids is unnecessary.

Features/Benefits

- Improved engine reliability --
 - Greater tolerance to conditions of overload or poor combustion, promotes piston cleanliness and cleaner engines
 - Helps reduce deposits in piston cooling spaces, which results in less top ring groove deposits and cleaner crankcases
- Promotes lower maintenance costs:
 - Promotes extended diesel engine life through reduced risk of ring sticking and breakage
 - Promotes longer oil life, especially in high stress engines, because of good oxidation resistance and good resistance to thermal degradation under severe operating conditions
 - Excellent protection against corrosion for all engine components, due to the unique formulation giving excellent reserve alkalinity
- Re-assurance:
 - Helps protect highly loaded bearings, in the event of water contamination, because of good water tolerance and separation in separators

Approvals and Recommendations

- most leading trunk piston diesel engine manufacturers
- API Classification CF

Typical Properties of Shell Gadina® Oil

	Test Method	SAE Grade	
		30	40
Product Code		63553	63554
Property			
Gravity, °API	D 1298	27.5	28.2
Density, API	At 15 C	0.897 Kg/l	0.900 Kg/l
Viscosity:			
@ 40°C cSt	D 445	104.0	139.0
@ 100°C, cSt		11.8	14.4
Flash Point, COC, °C (°F)	D 92	240 (460)	246 (470)
Pour Point, °C (°F)	D 97	-18 (0)	-18 (0)
Load Carrying Capacity FZG Gear Machine Failure load stage	D 5182	12	11
TBN-E, mg KOH/g	D 2896	12	12
Sulphated Ash, % wt	D 874	1.35	1.35

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/>.