

SHELL GADINIA

LUBRICANTS FOR MEDIUM-SPEED MARINE DIESEL ENGINES RUNNING ON DISTILLATE FUELS

DESIGNED TO MEET CHALLENGES

Shell Gadinia are premium quality multi-functional diesel engine lubricants that are specially designed for the most severe service main propulsion and auxiliary marine trunk piston engines burning distillate fuels with a sulphur content up to 1%. They also perform satisfactorily in smaller high speed engines of fishing fleets that operate under arduous conditions and have small sumps.

PERFORMANCE FEATURES

ENGINE RELIABILITY

- Great tolerance to engine overload or poor combustion due to improved piston cleanliness.
- Reduced deposits in piston ring belt and cylinder liners.

CONTROL MAINTENANCE COSTS

- Designed to extend diesel engine life through helping to reduce the risk of ring sticking and breakage.
- Formulated for long oil life, especially in high stress engines, because of Shell Gadinia's excellent resistance to oxidation and thermal degradation under severe operating conditions.
- Superior protection against corrosion for all engine components, due to Shell Gadinia's unique formulation giving excellent alkalinity retention.
- Control of liner lacquer assists in the control of oil consumption and helps to minimise the cost of operation.

RE-ASSURANCE

- Great safety margin to protect highly loaded bearings, in the event of water contamination, because of Shell Gadinia's water tolerance and separation in separators.
- OEM endorsement by leading diesel engine manufacturers following extensive field approval trials, means that Shell Gadinia is suitable for a range of modern diesel engines.

APPLICATIONS

- Highly rated, medium speed, main propulsion and auxiliary trunk-piston marine diesel engines.
- Turbochargers, oil filled stern tubes and variable pitch propellers.
- Deck machinery and other marine applications requiring SAE 30 or 40 viscosity oils.

SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS

MEETS THE ENGINE TEST CRITERIA FOR:

- API CF.

RECOMMENDED FOR USE IN:

- Trunk piston engines.

TYPICAL PHYSICAL CHARACTERISTICS

CHARACTERISTICS	30	40
Kinematic Viscosity @ 40°C mm ² /s	104	139
@ 100°C mm ² /s	11.8	14.4
Flash Point (PMCC) °C	200+	225+
Density @ 15°C kg/L	0.897	0.900
Pour Point °C	-18	-18
Total Base Number mg KOH/g	12	12
Sulphated Ash % wt	1.35	1.35

SHELL GADINIA AL

ADVANCED LUBRICANT FOR MEDIUM SPEED TRUNK-PISTON ENGINES RUNNING ON DISTILLATE FUEL

DESIGNED TO MEET CHALLENGES

Shell Gadinia AL is a premium quality marine diesel engine oil designed for use in medium-speed trunk piston engines, which operate on distillate fuels. Shell Gadinia AL is specially designed to control oil consumption in modern engines, where liner lacquering is a potential problem. Being multi-functional Shell Gadinia AL can also be used for other shipboard applications such as reduction gears.

PERFORMANCE FEATURES

ENGINE RELIABILITY

- Excellent piston and crankcase cleanliness, which helps to maintain engine efficiency.
- Load carrying properties required for use in reduction gears.

CONTROL MAINTENANCE COSTS

- Excellent liner lacquer control that maintains lubricating oil consumption at its normal level.
- A high level of protection against bore polishing – another cause of high oil consumption.

RE-ASSURANCE

- Protection for engines where cylinder liner lacquering is likely to occur.

APPLICATIONS

- Highly rated medium speed diesel engines operating under high load or overload conditions.
- General ship application, including gears, where specialist lubricants are not required.

SPECIFICATIONS, APPROVALS AND RECOMMENDATIONS

MEETS THE ENGINE TEST CRITERIA FOR:

- API CF.

RECOMMENDED FOR USE IN:

- Rolls-Royce and Bergen
- Deutz AG
- MAN B&W Diesel AG
- Simplex (Compact Sterntube Seals).

TYPICAL PHYSICAL CHARACTERISTICS

CHARACTERISTICS	40
Kinematic Viscosity @ 40°C mm ² /s	140
@ 100°C mm ² /s	14.3
Load Carrying Capacity (FZG) Fail Stage	12
Density @ 15°C kg/L	0.900
Flash Point (Closed Cup) °C	>200
Pour Point °C	-18
Total Base Number mg KOH/g	15
Sulphated Ash % wt	1.65