

Shell Gadinia

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

Shell Gadinia are premium quality multifunctional 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

Main Applications

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

Benefits of using Shell Gadinia

Improved engine reliability:

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

Lower maintenance costs:

- Extended diesel engine life through reduced risk of ring sticking and breakage.
- Longer oil life, especially in high stress engines, because of 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
- Improved control of liner lacquer leads to better control of oil consumption and contributes to lower cost of operation

Re-assurance

- Greater safety margin to protect highly loaded bearings, in the event of water contamination, because of Shell Gadinia's improved 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 the widest range of modern diesel engines.

Performance Specifications

- APICF
- Shell Gadinia is approved by leading trunk piston engine manufacturers.

Typical Physical Characteristics

Shell Gadinia		Test	30	40	Units
Kinematic Viscosity	40 C	ASTM D445/ IP 71	104	139	mm ² /s
Kinematic Viscosity	100 C	ASTM D445 / IP71	11.8	14.4	mm ² /s
Density	15 C	ASTM D4052 / IP 365	0.897	0.900	kg/l
Flash Point (Closed)	Pensky Martens	ASTM D 93 / IP 34	200 +	225 +	C
Pour Point		ASTM D 97 / IP 15	-18	-18	C
BN		ASTM D2896 / IP 276	12	12	mg/KOH/g
Sulphated Ash		ASTM D874 / IP 163	1.35	1.35	% wt

These characteristics are typical of current production. Whilst future production will conform to Shell's specification, variations in these characteristics may occur.

Health & Safety

Shell Gadinia are unlikely to present any significant health or safety hazard when properly used in the recommended application, and good standards of personal hygiene are maintained. Avoid contact with skin. Use impervious gloves with used oil. After skin contact, wash immediately with soap and water. For further guidance please request a Shell Product Safety Data Sheet.

Condition Monitoring

Shell RLA engine condition monitoring service enables the ship operator to monitor the condition of the oil and equipment and to take remedial action when necessary. This helps to avoid breakdowns and costly downtime.

Shell RLA OPICA is an integrated software system enabling RLA data to be received electronically in the office and/or on the vessel. It contains powerful data management and graphics, enabling efficiency gains in report handling and machine condition monitoring.

More Information

For more information about Shell Marine Fuels, Lubricants or Services please contact your local Shell Marine Products office or visit our web site <http://www.shell-marine.com>