



# SHELL MELINA<sup>®</sup> S OIL

## Multi-purpose marine diesel engine oil

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### Product Description

Shell Melina<sup>®</sup> S Oil is a premium performance 5 TBN lubricant based on a blend of highly refined high viscosity index mineral oils and a carefully balanced additive system incorporating Shell's advanced salycilate technology.

It is one of a family of low speed diesel engine lubricants designed to provide high levels of machinery protection in today's highly rated marine engines.

### Applications

- marine low-speed diesel engine crankcase and piston cooling systems
- turbochargers
- geared transmissions
- oil-lubricated stern-tubes
- deck machinery
- other ancillary equipment requiring an SAE 30 oil

**NOTE:** Shell Melina<sup>®</sup> S Oil is not recommended for trunk-piston engines. Where a multi-purpose oil suitable for such engines is needed, consult your Shell representative.

### Purification

Normal purification equipment and practices for crankcase lubricants should be used so that Shell Melina<sup>®</sup> S Oil does not become over burdened with contaminants and water. Water washing when centrifuging is unnecessary as a normal practice because the formulation gives adequate protection against contaminants.

### Features/Benefits

- good alkalinity - helps neutralize the strong, highly corrosive, acids contained in the products of combustion which contaminate the system
- excellent resistance to corrosion - provides effective protection of all metal surfaces from corrosion
- oxidation stability - combats thermal degradation, particularly where the oil is used for piston cooling
- excellent detergency - keeps crankcase and under piston spaces clean
- good water shedding properties - easy removal of contaminating water by centrifuge
- resistant to microbiological degradation
- air release and antifoam properties - carefully selected additives result in quick air release reducing foaming
- extreme pressure properties - to suit many gear oil applications

### Approvals and Recommendations

- major low speed diesel engine manufacturers

### Typical Properties of Shell Melina® S Oil

	Test Method	SAE Grade
		30
Product Code		63665
Gravity, °API	D 1298	27.7
Density, API	At 15 C	0.888 Kg/l
Viscosity:		
@ 40°C, cSt	D 445	104
@ 100°C, cSt	D 445	11.6
Viscosity Index	D 2270	99
Flash Point, COC, °C, (°F)	D 92	227 (440)
Pour Point, °C (°F)	D 97	-33 (-30)
Shell Centrifuge Test*		
Water content % vol.		0.03
Fall in TBN-E mg KOH/g		0.55
TBN-E, mg KOH/g	D 2896	5.0
Rust test, Salt water	D 665B	Pass
Gear rig test, FZG Fail stage	DIN 51354	11
Foaming test,		
foam after 10 mins. blowing		
ml	D 892	0
foam after 5 mins. blowing		
ml		0

\*Oil is circulated through an Alfa-Laval centrifuge at 85°C. Water at 95°C is injected to maintain a level of 5% vol. for 25 passes (2 hours). The water is then switched off; a further 10 dry passes complete the test.

### 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/>