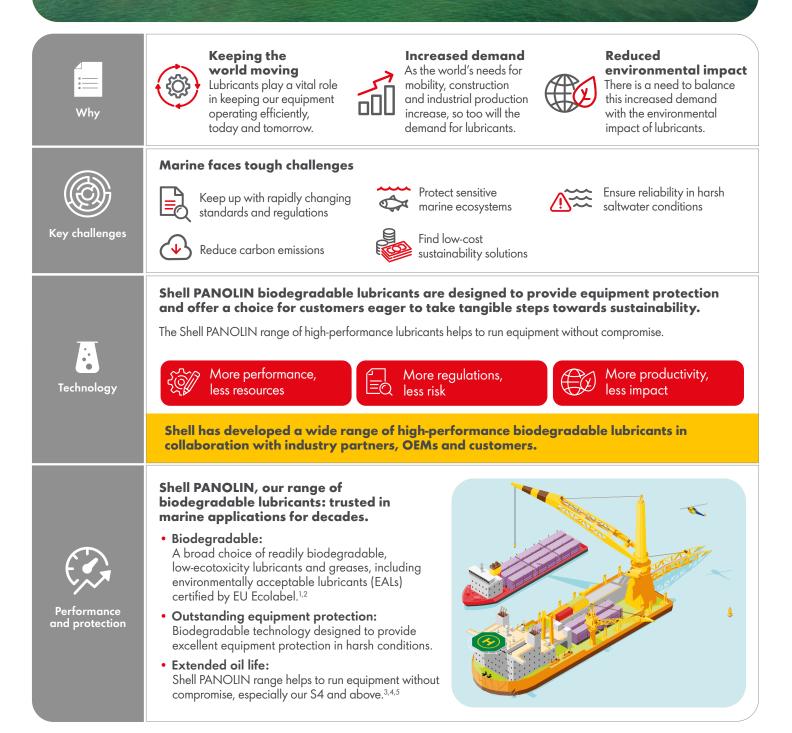


## Shell PANOLIN for marine Balancing performance and sustainability







[1] Our finished lubricants biodegraded by over 60% after 28 days in the OECD 301 B carbon dioxide evolution test and are tested in accordance with OECD 202 to determine toxic potential. Biodegradability and ecotoxicity terminology is defined by ASTM D 6384-99, "Standard Terminology Relating to Biodegradability and Ecotoxicity of Lubricants". [2] Calculation based on volumes sold in 2023 of all 65 products including 25 which hold EU Ecolabel Certifications. [3] The product oil-drain interval and maintenance procedures are influenced by equipment type and operating conditions; results may vary. No guarantees are provided. Follow your equipment manufacturer's recommendations. [4] In comparison with unsaturated-ester-type HEES, Shell PANOLIN S4 HLP Synth fluids were developed to increase the oil life, with an outstanding dry TOST life of over 6,000 hours (modified ASTM D943 test). [5] Oxidation stability tested in accordance with ASTM D2070 and in comparison with unsaturated ester type HEES, particularly on our S4 products.

# **Shell PANOLIN for marine**

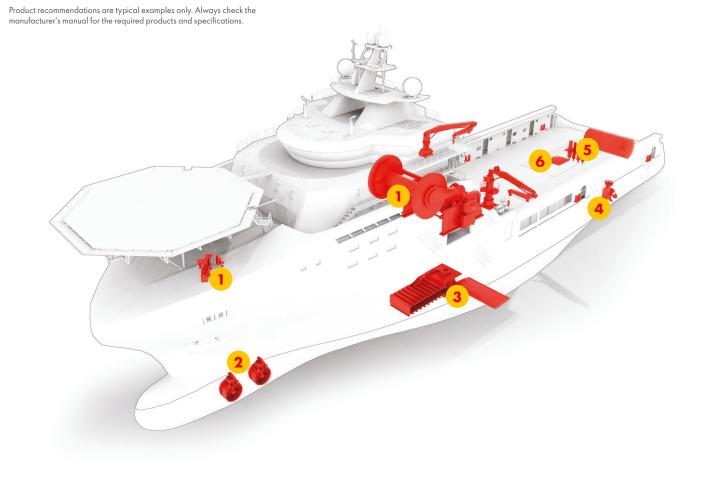
## Application guide

	Component	Shell recommendation
1	Windlasses and winches	Shell PANOLIN S4 Gear EAL 68, 100, 150 Shell PANOLIN S4 HLP Synth EAL 46, 68 Shell PANOLIN S2 Hydraulic DU EAL 46, 68 Shell PANOLIN S5 Grease EAL A600P 1.5
2	Thrusters	Shell PANOLIN S4 Gear EAL 68, 100, 150 Shell PANOLIN S4 HLP Synth EAL 46, 68 Shell PANOLIN S2 Hydraulic DU EAL 46, 68 Shell PANOLIN S5 Grease EAL A600P 1.5 Shell PANOLIN S5 Grease EAL V120P 2
3	Stabilisers	Shell PANOLIN S4 HLP Synth EAL 46, 68 Shell PANOLIN S2 Hydraulic DU EAL 46, 68 Shell PANOLIN S4 Stern Tube EAL 100 Shell PANOLIN S4 Gear EAL 68
4	Propeller shaft seal and stern tube	Shell PANOLIN S4 Gear EAL 68, 100, 150 Shell PANOLIN S4 Stern Tube EAL 100
5	Fair leads, stern roller, rudder	Shell PANOLIN S5 Grease EAL A600P 1.5 Shell PANOLIN S5 Grease EAL V120P 2
6	Ramps, hatches and doors	Shell PANOLIN S4 HLP Synth EAL 46, 68 Shell PANOLIN S2 Hydraulic DU EAL 46, 68

### Which products should I use?

Reducing the environmental impact of critical operations does not mean that you need to compromise on productivity or protection.

Shell has a broad portfolio of products designed for a wide range of operating conditions and applications; these include lubricants especially suited for environmentally sensitive areas and operations in or near water.



# **Shell PANOLIN for marine**

## Application guide

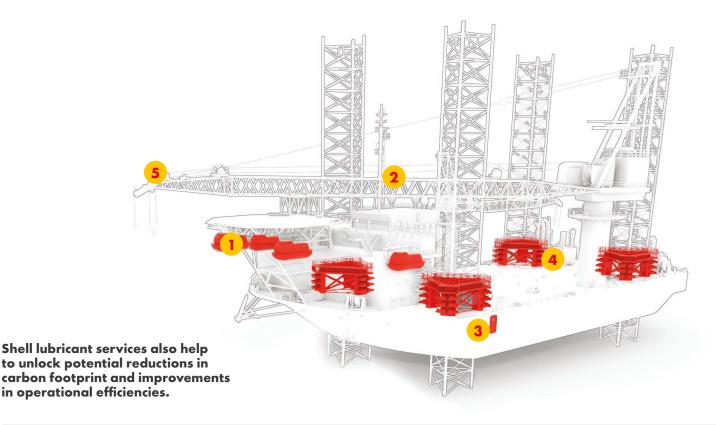
	Component	Shell recommendation
1	Lifeboats	Shell PANOLIN S5 Grease EAL A600P 1.5
2	Cranes	Shell PANOLIN S4 HLP Synth EAL 46, 68 Shell PANOLIN S2 Hydraulic DU EAL 46, 68 Shell PANOLIN S5 Grease EAL A600P 1.5
3	Doors	Shell PANOLIN S4 HLP Synth EAL 46,68 Shell PANOLIN S2 Hydraulic DU EAL 46, 68
4	Jacking systems	Shell PANOLIN S4 Grease U68AP Shell PANOLIN S4 Gear EAL 68, 100, 150
5	Winches	Shell PANOLIN S4 Gear EAL 68, 100 Shell PANOLIN S4 HLP Synth EAL 46, 68 Shell PANOLIN S2 Hydraulic DU EAL 46, 68

Product recommendations are typical examples only. Always check the manufacturer's manual for the required products and specifications.

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