

# Shell PANOLIN for marine

## Balancing performance and sustainability



Shell  
**PANOLIN**



Why



### Keeping the world moving

Lubricants play a vital role in keeping our equipment operating efficiently, today and tomorrow.



### Increased demand

As the world's needs for mobility, construction and industrial production increase, so too will the demand for lubricants.



### Reduced environmental impact

There is a need to balance this increased demand with the environmental impact of lubricants.



Key challenges

### Marine faces tough challenges



Keep up with rapidly changing standards and regulations



Protect sensitive marine ecosystems



Ensure reliability in harsh saltwater conditions



Reduce carbon emissions



Find low-cost sustainability solutions



Technology

### Shell PANOLIN biodegradable lubricants are designed to provide equipment protection and offer a choice for customers eager to take tangible steps towards sustainability.

The Shell PANOLIN range of high-performance lubricants helps to run equipment without compromise.



More performance, less resources



More regulations, less risk



More productivity, less impact

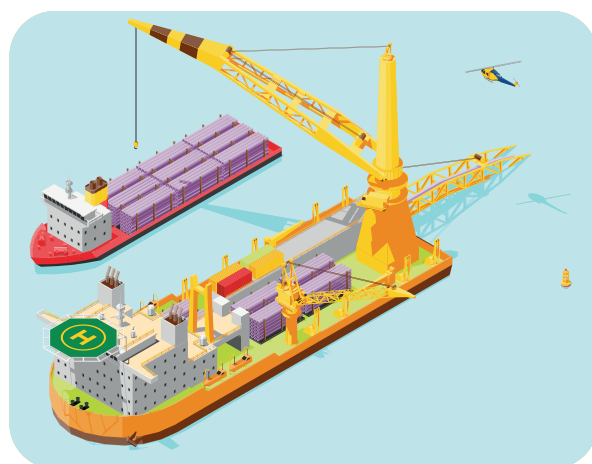
**Shell has developed a wide range of high-performance biodegradable lubricants in collaboration with industry partners, OEMs and customers.**



Performance and protection

### Shell PANOLIN, our range of biodegradable lubricants: trusted in marine applications for decades.

- **Biodegradable:**  
A broad choice of readily biodegradable, low-ecotoxicity lubricants and greases, including environmentally acceptable lubricants (EALs) certified by EU Ecolabel.<sup>1,2</sup>
- **Outstanding equipment protection:**  
Biodegradable technology designed to provide excellent equipment protection in harsh conditions.
- **Extended oil life:**  
Shell PANOLIN range helps to run equipment without compromise, especially our S4 and above.<sup>3,4,5</sup>



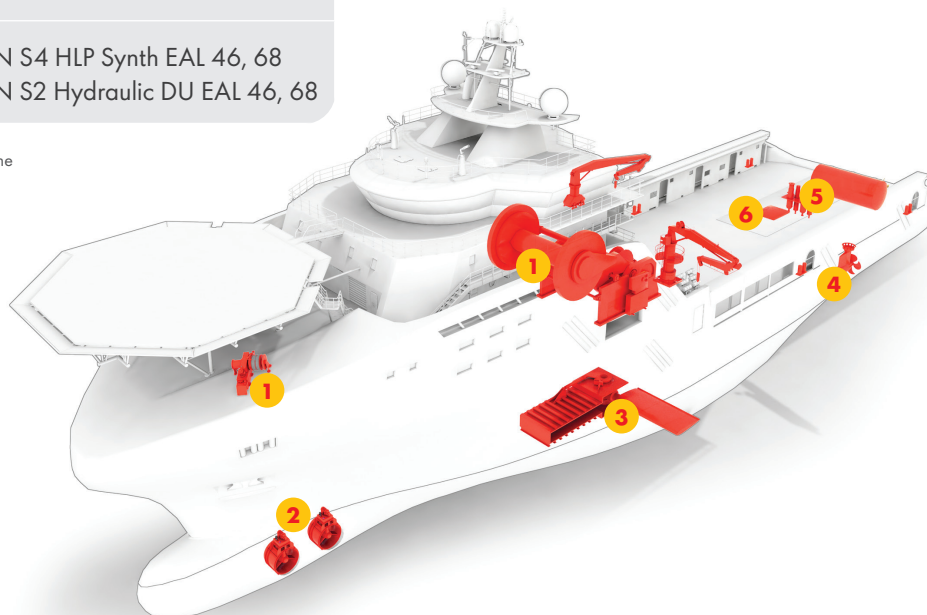
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## Application guide

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 VI20P 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 VI20P 2
6	Ramps, hatches and doors	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.

**Shell lubricant services also help to unlock potential reductions in carbon footprint and improvements in operational efficiencies.**



### 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.

### Services

#### Shell LubeAnalyst

Oil and equipment monitoring service

#### Shell LubeCoach

Lubrication training

#### Shell LubeAdvisor

Expert advice from the Shell technical team

#### Shell LubeMatch

Find the right oil for your vehicle or equipment

Forhandler:

**SERVI**  
GROUP™

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