Shell PANOLIN for construction

Shell PANOLIN



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

Keeping the

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.



Construction faces tough challenges Tight deadlines

require high

productivity



Evolving standards demand adaptation



Pressure to conserve resources without performance loss



Environmentally sensitive locations need meticulous management



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.

Shell PANOLIN, our range of biodegradable lubricants: trusted in construction for decades.

A broad choice of readily biodegradable, low-ecotoxicity lubricants and greases, including

Biodegradable:

by EU Ecolabel.^{1,2}



Performance and protection

- 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.^{3,4,5}





[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 HIP 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 D2020 and is comparison with ASTM D2070 and in comparison with unsaturated ester type HEES, particularly on our S4 products.

Shell PANOLIN for construction

Application guide

| | Component | Shell recommendation |
|---|-------------------------------|---|
| 1 | Hydraulic systems | Shell PANOLIN S4 HLP Synth (or EAL) 46, 68, 100 Shell PANOLIN S2 Hydraulic DU EAL 46, 68 |
| 2 | Gears | Shell PANOLIN S4 Gear (or EAL) 150 |
| | Final drive and axles | Shell PANOLIN S4 Gear RS 80W90 |
| 3 | Automatic greasing systems | Shell PANOLIN S5 Grease EAL V120P 2 |
| 4 | Pivot points | Shell PANOLIN S5 Grease EAL V320 2 |
| 5 | Heavy duty diesel engine | Shell PANOLIN Biomot LX 10W-40 |

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 construction conditions and applications; these include lubricants especially suited for environmentally sensitive areas and operations in or near water.

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.

Services

Shell Lube**Analyst**

Oil and equipment monitoring service

Shell Lube**Coach**

Lubrication training

Shell Lube**Advisor**

Expert advice from the Shell technical team

<mark>Shell</mark> Lube**Match**

Find the right oil for your vehicle or equipment



Find out more by visiting
www.shell.com/construction-and-road.html

