



Formerly Known As: PANOLIN Sprint

Shell PANOLIN S3 HLP Synth EAL 32

- EU Ecolabel Certified
- USA EPA VGP compliant
- Readily Biodegradable

Hydraulic fluid - high performance, readily biodegradable, saturated synthetic esters

Shell PANOLIN S3 HLP SYNTH EAL is zinc-free additive technology, blended with fully synthetic saturated and unsaturated esters provides an good blend of lubrication performance and environmental acceptability. Readily biodegradable with a low ecotoxicity, particularly suited for use in environmentally sensitive areas where eco-label compliance is required including US waters. For use in stationary and mobile hydraulic systems including marine and deck equipment, construction and forestry.

DESIGNED TO MEET CHALLENGES

Performance, Features & Benefits

- **Good wear protection**

Shell PANOLIN S3 HLP Synth is designed to help equipment operate without interruptions. Shell PANOLIN S3 HLP Synth EAL offers good wear protection.

- **Maintaining system efficiency**

High VI provides performance across a wide temperature operating window.

- **Lower Environmental Impact**

Recommended for use in environmentally sensitive areas: An 'environmentally acceptable lubricant' as defined by the USA EPA 2013 Vessel General Permit and offers reduced impact of leak or accidental spillage into the environment when used in marine environments compared to conventional mineral oils. Readily biodegradable - biodegraded by over 60% after 28 days in the OECD 301 B carbon dioxide evolution test. Low Ecotoxicity - Classified as 'not harmful' to bacteria, algae, freshwater and marine invertebrates, and fish when tested as water-accommodated fractions (WAFs) according to OECD and EPA test guidelines.

Main Applications



Specifications, Approvals & Recommendations

- Meets the requirements for EU Ecolabel - DE/027/289
 - Meets requirement of United States Environmental Protection Agency's (EPA) 2013 vessel general permit (VGP)
 - Swedish Standard SS 15 54 34 SP
 - Biodegradable OECD 301B >60%
- For a full listing of equipment approvals and recommendations, please consult your local Shell Technical Helpdesk.

Compatibility & Miscibility

- **Fluid Compatibility**

Shell PANOLIN Fluids are miscible with mineral oils. However, in order to ensure that the environmental properties and performance of Shell PANOLIN Fluids are maintained, the system should be drained and flushed thoroughly when changing fluids.

- It is strongly recommended that an oil sample is taken from the system following changeover and analysed via the Shell Rapid Lubricants Analysis service to confirm the new fluid charge is fit for use.

Typical Physical Characteristics

Properties			Method	Shell PANOLIN S3 HLP SYNTH EAL 32
Kinematic Viscosity	@40°C	mm ² /s	ASTM D445	34.6
Pour Point		°C	ASTM D97	-42
Flash Point		°C	ASTM D92	253
Density	@15°C	Kg/m ³	ASTM D4052	919

These characteristics are typical of production, variations in these characteristics may occur.

Health, Safety & Environment

• Health and Safety

This product is 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.

Guidance on Health and Safety is available on the appropriate Safety Data Sheet, which can be obtained from <https://www.epc.shell.com>

• Protect the Environment

Take used oil to an authorised collection point. Do not discharge into drains, soil or water.

Additional Information

• Advice

Advice on applications not covered here may be obtained from your Shell Representative