



GUARANTEE

Envirolin 
Canada **ECO-FRIENDLY**
LUBRICANT
DISTRIBUTOR

PANOLIN® 
Swiss High-Quality Oil

PANOLIN HLP SYNTH WARRANTY CONDITIONS

Congratulations on your decision to use PANOLIN HLP SYNTH in your machinery. You have selected a saturated ester-based synthetic hydraulic liquid. With PANOLIN HLP SYNTH, it is possible, depending on machine use, our level of knowledge, and by respecting the conditions below, to increase the time between oil changes four to five times compared to mineral oil-based hydraulic liquids. (Generally, oil is changed after intervals of between 1500 and 2000 hours of operation).

WE GUARANTEE OUR PRODUCT IF THE FOLLOWING CONDITIONS ARE MET:

- 1.** The viscosity grade recommended by the machine's manufacturer must be used.
- 2.** Mixing with other rapidly biodegradable oils (such as hydraulic liquids HEES, HEPR, HETG, HEPG per ISO 15380 or VDMA 24568) is not authorized.
- 3.** When filling new or used machines with PANOLIN HLP SYNTH, the residual mineral oil remaining must not exceed 5% of the full amount.
Note on ISO/VDMA
– In compliance with ISO 15380 and VDMA 24569, a maximum of 2% mineral-based oils can be mixed with a rapidly biodegradable liquid.
Manufacturer's notes/prescriptions
– Some equipment manufacturers require that the proportion of third-party oils be significantly less than 5%. In such cases, the manufacturer's prescriptions absolutely must be respected. PANOLIN substitution instructions are subordinate to the manufacturer's prescriptions.
Note / RAL-UZ 79, Blauer Engel
–Extract from the RAL Manual / Product requirements: "When changing to biologically fast decomposable hydraulic liquids, VDMA 24569 guidelines must be complied with."
- 4.** A microfiltration system must be used when filling the machine to avoid impurities.
- 5.** For the full operations period, solid impurities (crud, dust, etc.) must be limited as much as possible and must remain under the ISO 4406 18/16/13 cleanliness level..
- 6.** Moisture content (from condensation) must not exceed the 0.1% maximum threshold.
- 7.** The operating liquid must be regularly submitted for examination in laboratories designated by Envirolin, but no later than the intervals outlined in the table below (subject to specific signed agreements which have priority). Oil samples (at least 500 ml) must be drawn from systems at operating temperatures and stored in clean, unused sample containers. The clearly labelled oil samples must be immediately sent to a laboratory designated by Envirolin.

Control interval (after initial operation/conversion)	Normal use	Heavy use (for example, hydraulic percussion drill)
1 st control after	50 operating hrs.	50 operating hrs.
2 nd control after	500 operating hrs.	250 operating hrs.
3 rd control after	1000 operating hrs.	500 operating hrs.
Subsequent controls every	1000 operating hrs. or at least once a year	500 operating hrs. or at least twice a year

8.

The measures recommended by the laboratory after the oil analysis, regarding dehydration, filtering, etc., must be applied. After implementing the laboratory-recommended measures, a new control sample must be drawn and sent to the laboratory designated by Envirolin.

9.

In case of damage, the user must immediately inform Envirolin by phone or mail:

520, Adanac Street,
 Québec (Québec)
 G1C 7B7
 Tel.: 1 888 844-7925
 info@envirolin.ca
 + copy to info@panolin.com

Phoned-in damage reports must be confirmed in writing by the user without delay. In case

of damage, the user must immediately draw an oil sample and send it posthaste to the laboratory designated by Envirolin. Envirolin reserves the right to draw the samples itself or to ensure that they are drawn properly.

The above provisions are an integral part of all sales contracts for PANOLIN HLP SYNTH between PANOLIN AG and their Canadian intermediary, Envirolin.

To ensure professional follow-ups for users-clients of Panolin biolubricants, and to give good advice in interpreting oil analyses, Envirolin solicits the authorization to directly or indirectly access the information from the results of analyses on Panolin biodegradable oils.

Client

Full contact information

Authorizes Envirolin to receive a copy of the reports of analyses performed on Panolin lubricant used in equipment _____ # _____

Brand

Type

Chassis #

Client signature _____ Date _____



PANOLIN® and FLUSHING SERVICE®
Your compliance guarantee

FLUSHING SERVICE® is a trademark owned by PANOLIN, the biodegradable lubricant specialist that can make your equipment compliant in only a few hours and at low cost.

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IMPORTER AND TECHNICAL SUPPORT

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