

Bio-hydraulic oils and a lot of misunderstandings

Bio oils have been introduced into the market already 20 years ago.

Again and again new «super bio oils» are being offered and according to their suppliers they can do everything better than the established bio-lubricants. Is this really true?

High quality bio hydraulic fluids are very complex products.

The user who wants to really understand these products and the differences between the products needs an extensive technical knowledge. Basic oil characteristics, additivation, material compatibility, the different methods for testing the biodegradability of an oil are some of the complex points to be known to be able to judge a bio oil. Of course it should also be known how the oil reacts in the practical employment. In this case it would be of advantage to know the hydraulic oil market back to front. All this for us seems simply impossible for the normal user.

5 Points providing a secure choice of the right bio oil

1. Eco-Label, e. g. Blue Angel (Blauer Engel) etc.

If the offered product is listed under «www.blauer-engel.de», the machine user, by choosing such a product, has already assured a big part of his environmental responsibility. It is granted that the biodegradability of the product has been tested. Are the eco-labels missing, the security is missing too.

PANOLIN HLP SYNTH products are certified with various of the well known eco-labels.

2. Approvals of machine and component fabricants

Machine fabricants are rightly insisting in approving for employment only products which have been extensively tested. If a damage occurs with a non-approved product, the trouble has nearly to be expected. Guarantee and “good-will” claims are quickly being rejected. From the user´s point of view it is always useful to question statements made in advertising, if these statements seem to be too full-bodied. In case of damage the employment of the new bio oil rapidly turns into a very expensive «adventure».

PANOLIN HLP SYNTH products have the approval of leading machine and component fabricants.

3. Practical experiences

No virtual laboratory test or test bench can replace practical experiences.

The experience in the reality was and remains the most important source of information about the real performance grade of a lubricant. Products with little or no practical experience always contain a risk.

PANOLIN HLP SYNTH is on the market since 20 years and with more than a billion of operating hours really tested.

4. Long-term employment

Several bio oils have a weak performance, scarcely reach the operating hours of conventional mineral oil and are absolutely not suitable for long term employments.

PANOLIN HLP SYNTH has been designed as high performance hydraulic fluid. The number of construction machines with more than **20'000** operating hours is continuously increasing. In stationary plants more than **100'000** operating hours have been reached too. The long-term oil PANOLIN HLP SYNTH is more and more confirming itself as «machine life time fill».

5. Choice of the lubricant supplier

The choice of the right partner also in this case is decisive and often not easy.


Essential criteria, which have to be observed when choosing a lubricant partner:

- Technically competent consultations in advance
- Controlled survey of the oil by means of oil analyses
- Optimal assessment and system solutions for oil maintenance

We and our authorised dealers correspond to this service profile and are in the position to give to our customers the necessary advice and assistance. With us you can cost effectively operate your machines, you take no technical or environmental risks. We are your reliable partner.

Recognize a real bio hydraulic oil!

Not on every lubricant where «bio» is written on, there really is «rapidly biodegradable» in. High quality bio hydraulic fluids have to be evaluated following severe ecologic, technical and economic aspects.

Insecurity due to lack of clarity	Environmentally friendly high tech product
▼	▼
<p>A lot of expression as well as: «environmentally friendly» or „biodegradable“ have only a relative expressiveness.</p> <p>We think that „environmentally friendly“ means more than only biodegradable.</p> <p>The long-term suitability, i. e. protection of resources is a part of it too.</p> <p>????????????????</p> <p>????????????????</p> <p>????????????????</p> <p>????????????????</p> <p>????????????????</p>	<p>Rapidly biodegradable according to OECD 301 B (not only according to the antiquated CEC-Norm) several eco-labels, e. g.:</p> <div style="text-align: center;">  </div>
▼	▼
	<p>Approvals of numerous well known machine and component fabricants</p>
	▼
	<p>Enormous proof of experiences from 20 years of practical employment, In total more than 1'000'000'000 operating hours</p>
	▼
	<p>Suitable for decisively extended oil change intervals and therefore extremely economic Reference objects: several > 20'000 operating hours</p>
	▼
<p>If products are being used which are not complying with the requirements indicated on the right side perhaps deductions as far as the technique, economic efficiency and environmental protection have to be expected.</p>	<p>Oil maintenance and analysis service with system (accompanying long-term-employment)</p>
	▼
	<p>Products complying with all these criteria are normally recommendable from a technical, economic and environmental point of view.</p>