



A PERMANENT SOLUTION

What is permanent lubrication?

Permanent lubrication is an oil-saturated polymer material molded into the interior of the bearing. Micro-pores as small as one ten-thousandth of an inch within the polymer release oil while in use, and reabsorb when at rest. **Permanent lubrication can hold up to four times the base oil as most greased bearings.**

Permanent lubrication isn't just a replacement for grease.

It provides increased protection to the rolling elements by stopping contaminant ingress. It also eliminates oil/thickener separation and prevents oil washout in high-pressure cleanings.



IMPROPER LUBRICATION IS THE #1 CAUSE OF PREMATURE BEARING FAILURE.

Remove the biggest variable in bearing operation and choose the new permanent lubrication solution from Baart.



✓ PROTECTS

Lubrilife fills the entire bearing cavity without impeding the rolling element.



✓ SEALS

Lubrilife acts as an additional seal, in conjunction with the bearing seal.



✓ FOR LIFE

Lubrilife lasts the entire life of the bearing. Never manually grease a bearing again.

AVAILABLE IN



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FREQUENTLY ASKED QUESTIONS



competitor's solid lubrication



How is permanent lubrication added to the bearing?

Lubrilife is a manufacturing step, not a modification.

Most competitor's solid lubrication (shown left) is an after-market-add-on requiring permanent removal of a seal. This creates drawbacks such as:

- ✓ Hastened oil loss with no method for relubrication
- ✓ Increased susceptibility to damaging contamination
- ✓ Polymer fill pressing against the remaining seal, creating drag and increased heat

What are the temperature limitations?

The current bearings can operate in an ambient temperature range of -40°F to 195°F (the internal bearing temperature can be 265°). The lower temperature limit is limited by the oil, while the upper-temperature limit is limited by the polymer material.

What are the RPM limitations?

Deep groove ball bearings can operate with a DN factor of 300,000.

$DN = (\text{bearing bore in mm}) \times (\text{RPM})$

What is the warranty of these specific bearings? Does it extend it at all from the normal warranty?

The warranty is the same as other Baart products. One year materials and workmanship.

When are the bearings going to be available?

Mariner L4L will be available starting Summer 2020.

What will the lead time be for a standard mounted pillow block? Say a 1/2 inch or 5/8 bore? Realizing that Mariner will be the initial offering.

As of right now, we're planning on having Turner L4L bearings available late 2020. This is subject to change.

How do you differentiate between a standard Axis, Mariner, or Turner bearing and one with Lubrilife permanent lubrication?

The nomenclature has the suffix L4L (Lubricated for Life).

If you have both standard and Lubrilife units on your equipment how do you tell which ones need to be greased and which ones shouldn't?

The inner race has the L4L identifier on it, along with the rest of the part number.

Are there different types available?

Food grade and Standard.

Is a high temperature version available?

It is currently in development.

What oil is used?

The oil is a full synthetic with additives, while the food-grade oil is also an H1 lubricant, where incidental food contact may potentially occur.

Is one seal left off the bearing like other solid oils?

While permanent lubrication is superior to grease in excluding contaminants from the bearing, it performs best when used in conjunction with both bearing seals.

For design purposes, how do you determine an approximate life?

You can learn more about calculating approximate life at: <https://baartgroup.com/how-to-determine-approximate-bearing-life>



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