

Objective of test:

Wear comparison of iglidur® L500 and sintered bearings

Client:

Name: Björn Haag

Team: iglidur® plain bearings

Date: CW 08/2015

Order info:

Customer / No.: internal

Series / No: internal

Installation type:

Customer test: Yes No

Development test: Yes No

Technical data

Force: 0.25 MPa

Run time: 24 h

Speed
0.431 m/s;
0.863 m/s;
1.725 m/s;
3.45 m/s

Movement Rotating

Plain bearing iglidur® L500, sintered bearings

Shaft: Cf53

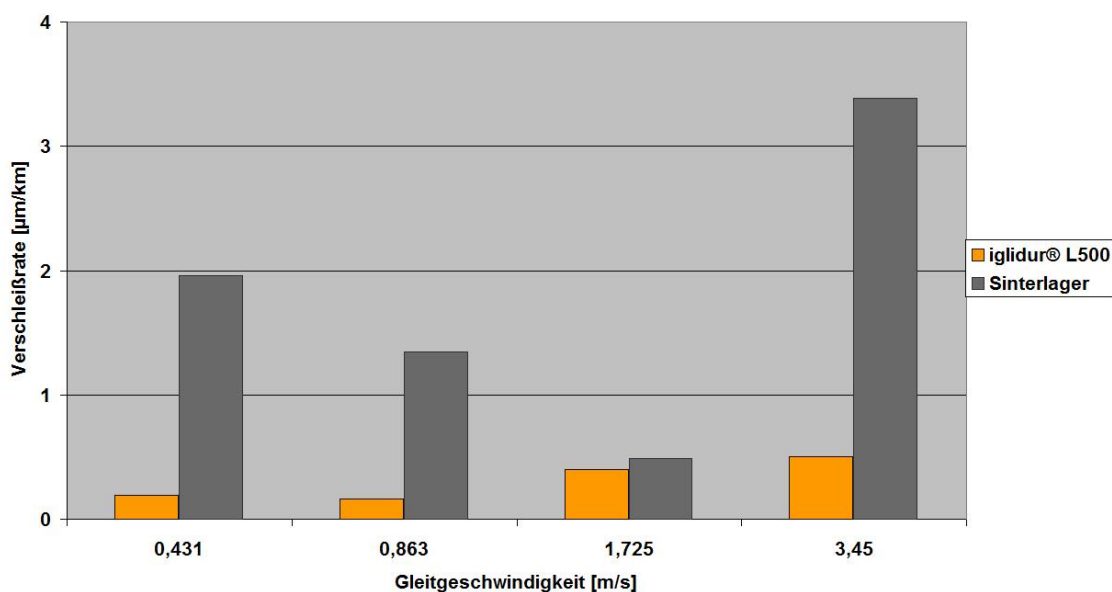
Experimental setup

Experimental procedure:

In the iglus® laboratory, a wear comparison was carried out on the standard wear test stand: Plain bearings made of iglidur® L500 and sintered bearings were used on a cf53 shaft to determine the wear rates at different surface speeds. Diagram 1 shows the results of the wear analysis.

Diagram 1

rotierender Verschleiß gegen Cf53
P= 0,25 MPa, T= 23°C



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The managing data show the results of the accomplished examinations. With all data it still acts neither around one or more warranties of certain characteristics around one or more warranties regarding the suitability of a product for a certain targeted application, since the examinations on laboratory conditions took place. The warranty of certain characteristics of the products and/or their suitability for a certain application requires writing in the confirmation of order. Finally we recommend user-specific measurements under genuine operating conditions.

Result

The lowest wear rates were achieved by the plain bearings made of iglidur® L500 at all tested surface speeds.

Evaluation

iglidur® L500 plain bearings have lower wear rates than sintered bearings and are much more friendly to the shaft, which means the wear on the side of the shaft is significantly lower or even absent.

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