

PRESS RELEASE

Excellent environmental compatibility and impressive performance: the switch lubricant rhenus LSN 04 XT scores highly with its EU Ecolabel (EEL) and approval by Deutsche Bahn

- **Based on biodegradable synthetic base oils**
- **Impressive performance and environmental compatibility**
- **Long service life and outstanding resistance**

Mönchengladbach, 14 May 2024 – Lubricants for rail transport have to meet stringent requirements, ensuring not only excellent environmental properties but also flawless long-term operation of railway equipment and components. rhenus LSN 04 XT is a newly developed, semi-fluid switch grease from Rhenus Lub that is based on biodegradable synthetic esters and meets these requirements in full. As a refinement of the lubricant used in the past, it is suitable for the lubrication of sliding surfaces on switch systems and has been shown to allow a doubling of service lives even under challenging climatic conditions.

By reducing switch malfunctions, rhenus LSN 04 XT helps to deliver exceptionally reliable rail transport. The biodegradable lubricant is certified with the EU Ecolabel, a seal for sustainable products and services that help to relieve the burden on the environment. rhenus LSN 04 XT is therefore another of the company's products that meets the strict certification requirements of the EU Ecolabel, and it forms part of the steadily expanding portfolio of sustainable products from Rhenus Lub. As a "biodegradable switch grease", it has been approved for use by Deutsche Bahn. "With LSN 04 XT, we're delighted to offer another product that carries the coveted EU Ecolabel," says Dr Marco Pfeiffer, Grease Product Manager at Rhenus Lub. "Environmental friendliness and high performance aren't mutually exclusive parameters – as our products have proven even in demanding applications."

rhenus LSN 04 XT impresses in demanding DB tests

Rail transport of passengers and freight also brings challenges in terms of sustainability. No excess or displaced lubricating grease can be allowed to enter the ground or bodies of water – particularly at lubrication points, such as sliding surfaces on switches. The use of mineral oil-based lubricating greases always involves a certain degree of environmental risk. This is where rhenus LSN 04 XT comes in: thanks to its biodegradability, it is exceptionally sustainable and can be used in close proximity to the natural world without hesitation.

rhenus LSN 04 XT has demonstrated its excellent performance in various laboratory tests and in an elaborate long-term test by DB on 465 switches and junctions of all load categories over a period of 18 months. Designed for a temperature range of -40 to 120°C, the high-performance lubricant scored particularly highly for its service life, which is twice that of a standard product, reducing the need for relubrication. At the same time, it impressed with increased weather resistance, excellent processing characteristics and remarkable adhesive properties. Even at very low temperatures, the switch lubricant could be applied easily using sprayers or hand-held brushes and delivered reliable adhesion. The lubricating grease also showed excellent waterproofing and weather resistance, particularly thanks to its resistance to UV and corrosion.

One particularly positive characteristic was the ability to significantly reduce lubricant consumption thanks to a doubling of lubrication intervals and to minimise repair and maintenance costs thanks to high operational reliability of switches. Moreover, switches are significantly easier to set with rhenus LSN 04 XT, meaning that lubrication-related switch malfunctions occur much less often – as confirmed by the final test report from Deutsche Bahn. rhenus LSN 04 XT therefore helps to keep switches in consistently good condition while also helping to reduce operating costs.

rhenus LSN 04 XT: advantages at a glance

- Manufactured on the basis of synthetic high-performance esters
- Certified with the EU Ecolabel (EEL)
- Biodegradable
- Long service life
- Water- and UV-resistant
- Excellent low temperature properties
- Good adhesion properties
- Good ageing resistance
- Very good corrosion protection properties



rhenus LSN 04 XT scores highly with its EU Ecolabel (EEL) and approval from Deutsche Bahn.

About Rhenus Lub

Rhenus Lub is an international provider of special lubricants, application consulting services and process solutions for metalworking and metal processing. The company, which was founded in Mönchengladbach, Germany, in 1882, develops and manufactures water-miscible metalworking fluids and neat oils for demanding machining applications, special products for metalworking, and special greases and oils. With the rhenus lubricating fluid management concept, Rhenus plays an active role as an added-value partner, identifying opportunities for optimisation across the entire fluid process and fully exploiting the available potential – regardless of the industry or sector. Furthermore, the lubricant specialist develops greases to meet individual requirements. Among others, its customers include leading companies from mechanical engineering, the automotive and railway industries, the antifriction bearing and food industries, and the aerospace sector.

Through its subsidiary companies and other representative partners abroad, Rhenus Lub has a presence in over 30 countries around the world.

www.rhenuslub.com

www.linkedin.com/company/rhenuslub

Contact for editorial enquiries

Birgit Steinbock, rheinfaktor – Agentur für Kommunikation GmbH

Tel.: +49 221 88046-150

Email: steinbock@rheinfaktor.de

Press images may only be used for editorial purposes on the condition that the relevant source is specified. Use is free of charge. However, we ask that you provide us with a copy (in the case of print media) or notify us (other



4/4

media, internet). When using images on websites, we kindly ask that you include a link to "www.rhenuslub.com" or refer to our website "www.rhenuslub.com".

Rhenus Lub GmbH & Co KG
AG Mönchengladbach HRA 940
p.h.G. Rhenus Management GmbH
AG Mönchengladbach HRB 188

P.O. Box 50 02 07, 41172 Mönchengladbach
Hamburgerring 45, 41179 Mönchengladbach
www.rhenuslub.com
Tel. +49 2161 5869-0

Managing directors
Dr Max Reiners
Dr Frank Hentrich
Johannes Samwer