

Press Release

Validated hydraulic fluids increase the service life of hydraulics

Bosch Rexroth makes hydraulic fluids that successfully pass the neutral rating process available in a fluid rating list

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Hydraulic fluids that successfully pass Bosch Rexroth's neutral rating process will now be made available in a fluid rating list.

Significantly increased power density as a result of higher operating pressures, rotational speeds, oil circulation rates and temperatures: Hydraulic performance has greatly increased again in the past years. This also places higher requirements on the hydraulic fluids used, which have a decisive influence on the wear properties of hydraulic components, among other things. Bosch Rexroth therefore offers a neutral rating process that realistically reflects these current requirements. Hydraulic fluids that successfully pass this process will now be listed in Bosch Rexroth's [fluid rating list](#).

The minimum requirements for hydraulic fluids are defined in the relevant standards DIN 51524, ISO 15380 and ISO 12922. However, they do not sufficiently reflect the technical developments in high-performance hydraulics and the suitability of new hydraulic fluids and additives.

With a new, scientifically standardized rating process, Bosch Rexroth tests the behavior of fluids and the interaction with the key components pump and motor under realistic operating conditions. In the course of this process, the technical characteristics of the fluids are checked for plausibility and conformity, among other things. A practical pump and motor test and a specific seal test subject the fluids to high pressures in different cycles over

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Press Release

several hundred operating hours, both at high temperatures and at low viscosities. The rating process, which is described in the Rexroth data sheet no. 90235, far exceeds the minimum requirements of the relevant fluid standards and is suited to all mineral-oil-based hydraulic fluids, environmentally acceptable fluids, as well as fire-resistant hydraulic fluids. If a fluid fulfills all the requirements, it is then accepted into Bosch Rexroth's new [fluid rating list 90245](#), which replaces the previous market overviews 90220-01 and 90221-01.

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Lubricant and additive manufacturers can have the performance of their hydraulic fluids rated neutrally with this process, whatever the application. On request, Bosch Rexroth can also offer companies an RFT-APU-CL fluid test bench, which can be used for their own developmental work, for example. The process helps machine manufacturers and operators lower the maintenance and standstill costs of their machines and systems and increase operational reliability.

Economical, precise, safe, and energy efficient: drive and control technology from Bosch Rexroth moves machines and systems of any size. The company bundles global application experience in the market segments of Mobile Applications, Machinery Applications and Engineering, and Factory Automation to develop innovative components as well as tailored system solutions and services. Bosch Rexroth offers its customers hydraulics, electric drives and controls, gear technology, and linear motion and assembly technology all from one source. With locations in over 80 countries, more than 31.100 associates generated sales revenue of approximately 5.4 billion euros in 2015.

To learn more, please visit www.boschrexroth.com

The Bosch Group is a leading global supplier of technology and services. It employs roughly 375,000 associates worldwide (as of December 31, 2015). The company generated sales of 70.6 billion euros in 2015. Its operations are divided into four business sectors: Mobility Solutions, Industrial Technology, Consumer Goods, and Energy and Building Technology. The Bosch Group comprises Robert Bosch GmbH and its roughly 440 subsidiaries and regional companies in some 60 countries. Including sales and service partners, Bosch's global manufacturing and sales network covers some 150 countries. The basis for the company's future growth is its innovative strength. Bosch employs 55,800 associates in research and development at 118 locations across the globe. The Bosch Group's strategic objective is to deliver innovations for a connected life. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life."

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