

Press release

Liebherr takes part in the C³- Mobility research project

- Liebherr researches injection of synthetic fuels in heavy-duty and large engines
- OME3-5, 1-octanol and methanol show great potential for on- and off-highway applications

In the course of the past three years, the joint project "Closed Carbon Cycle Mobility - Climate Neutral Fuels for the Traffic of the Future" (C³-Mobility) has been pursuing new paths towards a CO₂-neutral future in mobility. Liebherr-Components is one of the 33 research partners in this cross-sector consortium covering power generation, process engineering, automotive and commercial vehicle engine manufacturing, as well as research and development.

Nussbaumen (Switzerland), October 5, 2021 – In the course of the past three years, the joint project "Closed Carbon Cycle Mobility - Climate Neutral Fuels for the Traffic of the Future" (C³-Mobility) has been pursuing new paths towards a CO₂-neutral future in mobility. Liebherr-Components is one of the 33 research partners in this cross-sector consortium covering power generation, process engineering, automotive and commercial vehicle engine manufacturing, as well as research and development.

C³-Mobility focuses on the use of fuels from renewable sources based on methanol and their further processing into other petrol and diesel fuels. Thereby, Liebherr has contributed its core competence in the field of fuel injection equipment and tested synthetic fuels in heavy-duty and large engines in dual-fuel combustion processes, by means of high-pressure chamber and other functional tests. The test results show great potential for the fuels OME3-5, 1-octanol and methanol used in on- and off-highway applications. As compared to fossil diesel, OME3-5 promises improvements in dual-fuel applications. Moreover, future-relevant results were achieved in the use of methanol-based fuels for the maritime sector. Liebherr relies on the findings in the C³-Mobility project for current and further research activities (e.g. methanol standard), which are of great importance for traffic of the future.

For more detailed information, please visit: <http://www.c3-mobility.de/en/home/>

https://twitter.com/C3_Mobility

<https://www.linkedin.com/company/c3-mobility>

The C³-Mobility project is funded by the German Federal Ministry for Economic Affairs and Energy under the funding code 19|18006. The responsibility for the content of this publication lies with the author.

About Liebherr-Components AG

In this segment, the Liebherr Group specialises in the development, design, manufacturing of high-performance components in the field of mechanical, hydraulic and electric drive and control technology. Liebherr-Component Technologies AG, based in Bulle (Switzerland), coordinates all activities in the Components product segment.

The extensive product range includes diesel and gas engines, injection systems, engine control units, axial piston pumps and motors, hydraulic cylinders, slewing bearings, gearboxes and winches, switchgear, electronic and power electronics components, and software. The high-quality components are used in cranes and earthmoving machinery, in the mining industry, maritime applications, wind turbines, automotive engineering or in aviation and transport technology. Synergy effects in s other product segments of the Liebherr Group are used to drive continuous technological development.

About the Liebherr Group

The Liebherr Group is a family-run technology company with a highly diversified product portfolio. The company is one of the largest construction equipment manufacturers in the world. It also provides high-quality and user-oriented products and services in a wide range of other areas. The Liebherr Group includes over 140 companies across all continents. In 2020, it employed around 48,000 staff and achieved combined revenues of over 10.3 billion euros. Liebherr was founded in Kirchdorf an der Iller in Southern Germany in 1949. Since then, the employees have been pursuing the goal of achieving continuous technological innovation, and bringing industry-leading solutions to its customers.

Images



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Fuel injection concepts for hydrogen and alternative fuels.

Gefördert durch:



aufgrund eines Beschlusses
des Deutschen Bundestages

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Published by

Liebherr-Components AG
Nussbaumen/ Switzerland
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