

Press Release

Biodiesel ready to use in agriculture and forestry

Berlin, 20 February 2018 – The University of Rostock demonstrates in current research results that non-road engines conforming to exhaust emission category EU Stage IV are suitable for operation with pure biodiesel.

The German government's climate protection plan 2050 intends a reduction of the greenhouse gas emissions in transport sector by 40 % until 2030. A reduction of the greenhouse gas emissions of fuels by 6 % is fixed by law until 2020. Fleet operation with pure biodiesel (B100) is already an opportunity to reduce greenhouse gas emissions significantly.

At the University of Rostock a research project could be completed that shows the suitability of B100 at an EU Stage IV engine for industry and agriculture. Special attention was given to the operational stability of exhaust gas aftertreatment systems in endurance tests. The use of exhaust gas aftertreatment systems with diesel particulate filters (DPF) and selective catalytic reduction (SCR) is mandatory to comply with the increasingly stricter emission limits for vehicles.

The long-term studies and comparative measurements with fossil diesel fuel at the University of Rostock show that the performance of the engine and the exhaust gas aftertreatment system stays unaffected while using B100. Emission limits and performance parameters can be fully complied with even after 1000 operating hours.

There was no negative impact on the engine or the exhaust gas aftertreatment system by the biodiesel which was provided by Association Quality Management Biodiesel (AGQM) and reflects the usual quality of the biodiesel produced by the members of AGQM. By means of unannounced and independent samplings at producers and traders, the biodiesel quality is verified and ensured regularly. The results of these samplings are published in an annual quality report on AGQM's website (www.agqm-biodiesel.de/en).

The findings of the project demonstrate once more the possibility to use biodiesel in road traffic and the non-road sector to contribute to the



Press Release

achievement of the climate targets for the transport sector. As a reaction to the promising outcome of the project, DEUTZ AG last November approved all their EU Stage IV tractors for the use of B100. The tested aftertreatment system is in principle also used for emission category EU Stage V engines which is why a B100 release appears to be possible here as well.

The project was supported by the German Ministry for Food and Agriculture (Bundesministerium für Ernährung und Landwirtschaft, BMEL), AGQM, Deutz AG and UFOP (Union zur Förderung von Oel- und Proteinpflanzen). The final report can be downloaded on the website of the Agency for Renewable Resources (Fachagentur Nachwachsende Rohstoffe e.V., FNR) under www.fnr.de.

AGQM is an organization founded by leading companies of the German biodiesel industry. As technical association AGQM predominantly deals with all issues concerning the quality management of biodiesel and its by-products.

Editorial contact: Dr. Richard Wicht
AGQM e. V.,
Claire-Waldoff-Straße 7, 10117 Berlin, Germany
Phone: +49 (0)30 / 31 90 44 33
E-Mail: info@agqm-biodiesel.de

