

Press Release

Biodiesel additives successfully tested

Berlin, 06. November 2023 – Sufficient oxidation and cold stability is essential for the safe use of biodiesel (FAME). The additives used must not have any negative interactions with the FAME itself or the base diesel fuel and its additives. Only two antioxidants and one flow improver were able to pass the challenging no-harm tests in 2023 and be included on the no-harm lists.

Fatty acid methyl ester (FAME, biodiesel) is often stabilized with additives to ensure safe storage and use at low temperatures in winter. In cooperation with the mineral oil industry, AGQM has developed the no-harm tests to test the additivation of biodiesel with antioxidants and flow improvers for possible negative interactions with FAME, the fossil diesel fuel and various additives.

In addition to the standard requirements in the test programs for pure biodiesel, a series of other specific tests such as interaction, filtration and engine oil compatibility tests as well as the XUD-9 engine test are carried out in a diesel fuel with 10% biodiesel content (B10). Depending on the additive type, special tests such as the relative efficiency to BHT for antioxidants and the foam, emulsion and corrosion test for flow improvers complete the demanding test programs, which are therefore unique worldwide.

In this year's test round, three additives were able to pass all the demanding tests. The antioxidants Spec-Aid BIO9401 and Spec-Aid BIO9402 (both VEOLIA Water Technologies and Solutions Belgium BV) and the flow improver Bio WinterFlow™ 902 (Innospec Ltd) were included in the respective no-harm lists.

Further information on the no-harm test as well as the no-harm list with all successfully tested products can be found on the AGQM homepage www.agqm-biodiesel.de/en. Information on the next no-harm test round for the testing of oxidation stabilisers is available on request at info@agqm-biodiesel.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.

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