

2016-02-25 | Pressemeldung | Deutschland | Biotreibstoffe

UFOP-Projekt "Lowering of the Boiling Curve of Biodiesel"

The boiling line of diesel fuels is relevant for the combustion in modern engines. Biodiesel shows a boiling behavior that is very different to diesel fuel especially during the regeneration phase, fuel beddable the piston walls and is taken over into the engine oil. Unlike fossil fuel, biodiesel cannot evaporate out of the engine oil. To adapt the boiling line, metathesis reactions were carried out. Different products were obtained by varying the catalysts and the ratio of biodiesel to 1-hexene. As 20%-blends in diesel fuel some metathesis products were quite similar to the diesel fuel boiling line.

The final report is available here:

http://www.ufop.de/files/7913/8063/2076/20120827_Abschlussb_final_eng_korr_Munack_Aend.pdf