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Biodiesel as a partial substitute for mineral diesel in compression ignition engines

Pradip Lingfa

North Eastern Regional Institute of Science and Technology, India

The rapid escalation of fuel prices, shortage of conventional petroleum based fuels and depleting hydrocarbon reserves of the world have forced to look for alternatives fuels to cater the ever increasing demands of fuel in transportation sector. In the present study biodiesel were produced from *Messua ferrei* and Waste cooking oil locally available in North Eastern Region of India. The physio-chemical characteristics were determined and compared with conventional diesel fuel as per ASTM Standards. The biodiesel produced from

two feedstock's were blended with different proportion by volume to test in a single cylinder four stroke diesel engine. After the engine test, it was observed that there is significance improvement in engine performance and reduction in exhaust emissions while using biodiesel fuel in diesel engine. However there is slight increased in Nox emission. Thus biodiesel produced from non-edible vegetable oils can be use in existing conventional diesel engine satisfactorily without any hardware modifications.

Biography

Pradip Lingfa did his master's and Ph.D degree from Indian Institute of Technology Delhi, India. He is currently serving as a Professor & Dean (Student's Affairs) at North Eastern Regional Institute of Science & Technology (Deemed to be University), under Ministry of Human Resource Development, Govt. of India, Itanagar, Arunachal Pradesh. He has published 22 in reputed Journals, 20 International Conferences, 18 National Conferences. He has organised International Conference, Short Term Course, Regional Seminar and an Industry Institute Interaction Programme. He has attended/participated in various Seminars, Workshops and Short Term Courses organised at various reputed Institutes and Universities throughout the Country.

pradip.lingfa@gmail.com

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