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(54) Title of the invention : EVALUATION OF DIESEL ENGINE PERFORMANCE PARAMETERS FUELLED WITH BLENDS OF BIODIESEL OF WASTE SESAME OIL

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(71)Name of Applicant :

1)Mr. Sanjay Kumar Yadav
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, SET, IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad -----

2)Prof. Manoj Kumar

3)Prof. Intezar Mahdi

4)Prof. Vishal Saxena

5)Mr. Abhishek Srivastava

6)Mr. Sanjay Singh

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :

1)Mr. Sanjay Kumar Yadav
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, SET, IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad -----

2)Prof. Manoj Kumar
Address of Applicant :Professor, Department of Mechanical Engineering, SET, IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad -----

3)Prof. Intezar Mahdi
Address of Applicant :Director, School of Engineering &Technology, IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad -----

4)Prof. Vishal Saxena
Address of Applicant :Head, Department of Mechanical Engineering, SET, IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad -----

5)Mr. Abhishek Srivastava
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, SET, IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad -----

6)Mr. Sanjay Singh
Address of Applicant :Assistant Professor, Department of Mechanical Engineering, SET, IFTM University, Moradabad, Uttar Pradesh - 244102 Moradabad -----

(57) Abstract :

The present invention relates to blends of bio diesel obtained from waste or used vegetable oil has been tested for diesel engine without any change in design. Different blends of biodiesel obtained from waste sesame oil and menthe oil has been explicated in V.C.R. diesel engine. The important intention of this work is to explore the effect of the blends B20, B40, B60, B80, B100 and pure diesel fuel on performance characteristics of engine. Performance characteristics of engine has been observed for above mentioned blends at 0% load , 25 % load, 50% load, 75 % load and 100 % load. This work describes that brake thermal efficiency, indicated thermal efficiency, brake power is less for blends of waste sesame oil biodiesel and pure menthe oil while Brake specific fuel consumption is higher as compared to pure diesel oil. Blend B20 can be use as fuel in agriculture sector.

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