



SDI Review Form 1.6

PART 1:

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	2013_BJAST_3655
Title of the Manuscript:	Performance, Emissions and Combustion Characteristics of Waste Fried Vegetable Oil Based Biodiesel in High Grade Low Heat Rejection Diesel Engine

General guideline for Peer Review process is available in this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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PART 2: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	1. What are the test conditons? 2. Explain the meanings of the symbols such as 1-CE-Diesel-27bTDC in Fig. 2. 3. What is the optimum injection timing for the engine in Fig. 2? 4. Give more information about the reasons between BTE and injection timings. 5. Compared the results in Fig. 2 and Fig. 3, it was found that the BTEs are different at a given injection timing and fuel, why? 6. What is the accuracy of the fuel flow meter? 7. I thank "the performance" should be a specific parameter, for example, efficiency. 8. Heat release rates for different fuel are needed in the first part of the results and discussion. 9. I think the focus of this paper is on rejection function when different fuels were used. But few were discussed. In most cases, only results were shown.	1. Test conditions were constant speed engine of 1500 rpm. Coolant water temperature was maintained at 60°C by adjusting water flow rate. The manufacturer,s recommended injection timing and injection pressures were 27°bTDC and 190 bar respectively. 2. 1- First curve CE- Conventional Engine 27 bTDC- 27 Degrees before top dead centre 3. The optimum injection timing was 33 degrees before top dead centre for CE with biodiesel operation 4. Given for your kind information 5. The conditions of CE and LHR Engine are différent. Hot combustion chamber is provided by LHR engine . Hence BTE are different at a given injection timing and fuel. 6.The accuracy of the fuel flow meter is 0.1%. 7. Performance parameters in terms of BTE, EGT, VE were compared with LHR with biodiesel over CE with pure diesel operation
Minor REVISION comments		



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		8. Heat release rates were not measured during experimentation, as it requires special software package. However, it can be predicted that heat release rates were higher with biodiesel operation in hot environment provided by LHR engine. 9. As it is pointed out, the focus of this paper is on rejection function. However, only few results were discussed due to limitation of the number of pages. However, paper was re-written taking these aspects into consideration.
<u>Optional/General</u> comments	The paper is no well-written as a research paper. It should be rewritten, I think.	Paper was re-written so as to present as a Research Paper.