



SDI Review Form 1.6

Journal Name:	Asian Journal of Applied Chemistry Research
Manuscript Number:	Ms_AJACR_43051
Title of the Manuscript:	Performance evaluation of ecofriendly biolubricant obtained from waste cooking palm oil
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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



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PART 1: Review Comments

	Reviewer's comment	Author's comment <i>(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)</i>
Compulsory REVISION comments	<p>Generally, the English language in the article is poor. Suggestions in this direction have been made but the authors must pay attention to this aspect and to proper punctuation. The authors must note that a value is always spaced from the unit except °C and %. There is an annoying repetition of this throughout the text. It is suggested that the authors adopt the simple term “quality parameters” instead of “quality assessment parameters”. The meaning of WCO is not given in the text. Would it be the same as WCPO? What about TMP? In the same vain, abbreviations in the appendix are not explained, making their comprehension difficult.</p> <p>Introduction Values from Tables 1.1 and 1.2 can be quoted to argue the point for the study but they have no place in the introduction. They can be integrated in the Tables in the Results and Discussion for comparison.</p> <p>Materials and Methods In 2.2, the biolubricant is produced solely by mixing waste oil, SN 500 and additives whose compositions are not precised and then stirred at high speed. Only one formulation was done in accordance with literature! The ratios were not varied to determine the optimum. What therefore is the contribution of the authors? Moreover, these additives seem to contain many components! Was there any synthesis of a biolubricant carried out? How were % compositions of different components of oil computed from GC-MS spectra? In fact, how are GC-MS data captured after injection of sample and exploited?</p> <p>Results and Discussion Are the results an average of many assays? This is important for reproducibility. Spectra refer to many; one should be a spectrum. Discussions seem to be jumbled, especially pertaining to tables, some which do not exist.</p>	<p>The authors strongly agreed with the reviewer on proper punctuation and have made necessary corrections in the manuscript. The authors strongly agreed with the reviewer on units of measurement and have updated the manuscript The authors strong agreed with the reviewer's comment and have modified the title to read 'Assessment of quality performance of ecofriendly biolubricant from waste cooking palm oil' in the manuscript. The authors strongly agreed with the observation of the reviewer and have provided explanations to abbreviations used in the manuscript.</p> <p>The authors strongly agreed with the reviewer's view on the tables in the introduction and have harmonised them with the results and discussion in the manuscript.</p> <p>The authors strongly agreed with the reviewer and have updated the manuscript with design of experiment (Mixture Design Method) used for the formulation of the produced biolubricant (including additives). The authors strongly agreed with reviewer's comment on GC-MS and have updated the manuscript with the equation used for the composition of different components of oil.</p> <p>The authors strongly agreed on the reviewer's observation on the reproducibility of the results and have updated the results section of the manuscript with average values of all assays.</p>
Minor REVISION comments	<p>Each table or figure should have a key and not keys. The spacing in the text varies from one paragraph to another. It will necessary to render this situation uniform. Was there need to include the paragraph number into the numbering of tables, figures and equations for such a short text?</p>	<p>The authors agreed with the comments of the reviewer and have formatted the manuscript (Tables, paragraphs, figures)</p>



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Optional/General comments		
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