Review Form 3

Journal Name:	**Journal of Engineering Research and Reports**
Manuscript Number:	**Ms_JERR_127137**
Title of the Manuscript:	**THERMAL AND STRUCTURAL CHARACTERIZATION OF COKE DEPOSITION ON SPENT NiMo CATALYST USED DURING CATALYTIC UPGRADING OF HEAVY OIL**
Type of the Article	**Original Research Article**

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	**Reviewer's comment**	**Author's Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.	**Yes. Due to the fact that it expresses a very practical and industrial topic and explains the reasons, it is very useful for the scientific community.**	
Is the title of the article suitable? (If not please suggest an alternative title)	**the title of the article is suitable**	
Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	It is better to include many more results in the abstract.	
Are subsections and structure of the manuscript appropriate?	**yes**	
Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.	Given that the references used in the sentences are also correctly, it is scientifically valid.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. -	If there are references from 2023 or 2024, it would be better to add them.	
Minor REVISION comments **Is the language/English quality of the article suitable for scholarly communications?**	yes	
Optional/General comments	1- According to the results obtained, it would be better to provide a solution to solve the problem of deactivation of catalysts. 2- It is better to check the metallurgical reasons for the changes and the formation of carbon when the results are XRD, TIG, FTIR obtained. 3- It should be discussed in the SEM pictures that this type of carbon is formed according to what mechanisms it is formed with this shape and what effect it has on the properties of the catalyst. 4- More explanations should be written in the conclusion section	

Review Form 3

PART 2:

	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)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

Name:	**Mojtaba Sadeghi Gogheri**
Department, University & Country	**Iran**