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Evaluation Study on The role of physical properties on the Efficiency of some Antioxidants**Hassan Jalal Aziz**

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This research is interested by comparing the physical properties of three types of petroleum antioxidants. Three types of well-known petroleum antioxidants: Unol, tertiary alkyl primary amine with 9 carbon atoms, and tertiary alkyl primary amine with 12 carbon atoms were selected to examine their ability as antioxidants for crude diesel fuel. Solubility and boiling point were selected as physical parameter in this research. The study was included the ability of these compounds on their specifications as antioxidants during the oxidation process under elevated temperature. Manometric method was selected to evaluate the oxidation efficiency on the basis of induction period results. The resulted induction periods were 600 sec. , 440 sec. , 212 sec. and 55 sec. for TAPA-12, TAPA-9 , Unol, and crude diesel respectively.

Biography

Hassan Jalal Aziz is lecturer in university of Salahaddin /college of basic education /general science department. He Attend many conferences outside Iraq, the last was in Leipzig University on 13/10/2015. He published many researches in the field of his specialization in international journals.

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