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Turkish Journal	Synthesis of Some New Functionalized Octasilsesquioxane Hybrid Nanoclusters. III. Potential of the Octameric Clusters as Hydraulic Lubricating Fluids
of	Enock O. DARE
Chemistry	Department of Chemistry, University of Agriculture, P. O. Box 28, UNAAB post office, Abeokuta-NIGERIA e-mail: dare3160@hotmail.com
Keywords	<u>Abstract:</u> The reaction of suitable organic compounds such as ω -halo-1-alkenes, allyltrichlorosilane or 2-methyl-3-butyn-2-ol in combination with a well-defined inorganic silsesquioxane, $H_8Si_8O_{12}$ A cores,
Authors	leads to covalently bound organic-inorganic hybrid materials in high yields. The hydraulic fluid properties of these viscous hybrid materials were evaluated and compared with those of some commercially available hydraulic fluids: Mobil EAL 224H, Super-V (AP) and Puroil SHO. The results showed that most silsesquioxane semi-liquids possess hydraulic fluid properties comparable to those of the 3 commercial lubricants.
chem@tubitak.gov.tr	Key words: Hydraulic fluid property, hybrid material, nanocluster, octasilsesquioxane
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