

عنوان مقاله:

Improvement of SNA · · Lubricant Using Cuoand Zno Nanoparticles

محل انتشار:

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خلاصه مقاله:

In this research, the effect of CuO and ZnO nanoparticles (NPs) addition on the stability of frictionand wear behavior of SNa. base oil is studied. The wear behavior is studied by the pin-on-disk testingmethod on STTY steel disks in presence of the prepared lubricants. The test results indicate that ZnONPs introduced to the base oil are more effective in reducing friction in comparison with CuO NPs.Non-ionic nonylphenol-10 and coconut fatty acid surfactants were used to improve the stability of thenanofluids. Roughness studies by AFM images confirmed that both NPs were .effective in reducingfiction and wear of STTY steel surface

کلمات کلیدی:

Tribology, Nanolubricant, Nanofluid, SNA oo base oil, Friction

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