

Accepted Manuscript

An experimental and theoretical investigation on the effects of adding hybrid nanoparticles on heat transfer efficiency and pumping power of an oil-based nanofluid as a coolant fluid

Meisam Asadi , Amin Asadi , Sadegh Aberoumand

PII: S0140-7007(18)30093-8
DOI: [10.1016/j.ijrefrig.2018.03.014](https://doi.org/10.1016/j.ijrefrig.2018.03.014)
Reference: IJIR 3927



To appear in: *International Journal of Refrigeration*

Received date: 19 November 2017
Revised date: 26 February 2018
Accepted date: 18 March 2018

Please cite this article as: Meisam Asadi , Amin Asadi , Sadegh Aberoumand , An experimental and theoretical investigation on the effects of adding hybrid nanoparticles on heat transfer efficiency and pumping power of an oil-based nanofluid as a coolant fluid, *International Journal of Refrigeration* (2018), doi: [10.1016/j.ijrefrig.2018.03.014](https://doi.org/10.1016/j.ijrefrig.2018.03.014)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Thermal conductivity of the nanofluid increased with increasing solid concentration
- The maximum increase in thermal conductivity was approximately 65 %
- The nanofluid is highly efficient in heat transfer applications
- The pumping power increased as the solid concentration increased

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7175279>

Download Persian Version:

<https://daneshyari.com/article/7175279>

[Daneshyari.com](https://daneshyari.com)