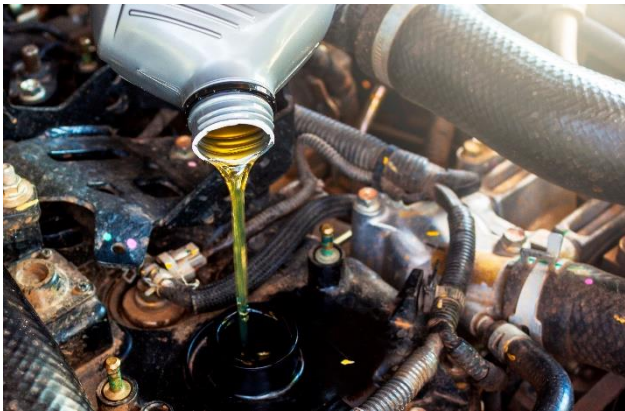


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MOLYBDENUM DISULFIDE NANO- BASED LUBRICANT



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TECHNOLOGY READINESS LEVEL (TRL)

- TRL 4

PATENT/ GRANTED NUMBER

- MY-169702-A

▶ TECHNOLOGY OVERVIEW

The present invention discloses a nanoparticle suspended lubricant that helps reduce costs, extended tool life and improve performance of machining process. Accordingly, the present invention provides a nano-based lubricant for use in machining comprising molybdenum disulphide (MoS_2) nanoparticle and mineral oil wherein the nano-based lubricant is free from additive including phenol and chlorine, wherein the mineral oil has a concentration of 0.5% and wherein the molybdenum disulphide (MoS_2) nanoparticle has a particle size ranging from 20 nm to 60 nm.

The molybdenum disulphide (MoS₂) nanoparticle is mixed with mineral oil having 0.5% concentration by way of sonication method.

CONTACT US!

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