## **Accepted Manuscript**

Halide-free PN ionic liquids surfactants as additives for enhancing tribological performance of water-based liquid

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PII: S0301-679X(18)30346-3

DOI: 10.1016/j.triboint.2018.07.018

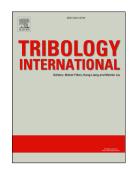
Reference: JTRI 5312

To appear in: Tribology International

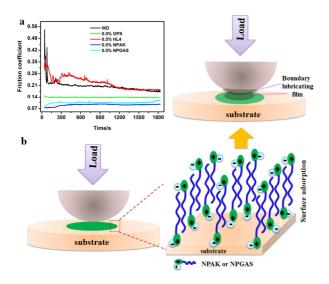
Received Date: 23 May 2018
Revised Date: 25 June 2018
Accepted Date: 10 July 2018

Please cite this article as: Wang Y, Yu Q, Cai M, Zhou F, Liu W, Halide-free PN ionic liquids surfactants as additives for enhancing tribological performance of water-based liquid, *Tribology International* (2018), doi: 10.1016/j.triboint.2018.07.018.

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