NIPPON KAIJI KYOKAI

Statement of Fact

No.KC18YH0223-E

Date: 28 March 2018

THIS IS TO CERTIFY that the undersigned surveyor confirmed the followings at the request of Messrs. NIPPON YUKA KOGYO CO., LTD. on 13-26 March 2018, in order to verify the improving performances for lubricity of fuel oils by below product in accordance with as per attached test procedure at the laboratory of NIPPON KAIJI KENTEI KYOKAI;

Product type: Fuel oil additive (Lubricity improver)
Product name: Yunic 750LS-F
Manufacturer: NIPPON YUKA KOGYO CO., LTD.

1. Test procedure and method: Refer to attached test procedure
2. General properties of test fuel oils: Refer to attached report of general properties of test fuel oils
3. Results of tests:

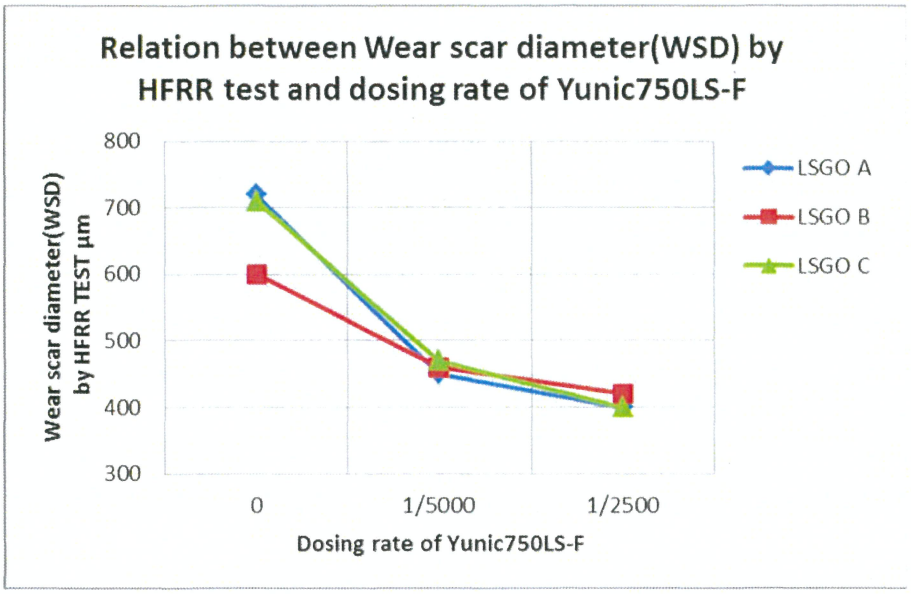
Yunic 750LS-F Dosing rate / Test fuel oils	Without additive	With additive 1/5000	With additive 1/2500
	Wear scar diameter(WSD) by HFRR test [μm]		
LSGO A	720	450	400
LSGO B	600	460	420
LSGO C	710	470	400

* "LSGO" means Low Sulphur Gas Oil.
* "HFRR " means High Frequency Reciprocating Rig .

Above mentioned inspection test results are confirmed in accordance with test procedure and method.
By dosing fuel oil additive, Yunic 750LS-F, to test fuel oils, it was confirmed that numerical value of wear scar diameter(WSD) by HFRR test as evaluation items of lubricity property was changed due to the effect as a lubricity improver.

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NIPPON KAIJI KYOKAI



Therefore this Statement of Fact has been issued.

(S. KUSUHARA)
Surveyor to Nippon Kaiji Kyokai

Attach: 1. Inspection test results
2. Report of general properties of test fuel oils issued by NIPPON KAIJI KENTEI KYOKAI
3. Test procedure for verification test of fuel oil additive "Yunic 750LS-F"

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