



# NIPPON KAIJI KYOKAI

## Statement of Fact

No.: KC17YH00363-E

Date: 14 December 2017

THIS IS TO CERTIFY that the undersigned surveyor confirmed the followings at the request of Messrs. NIPPON YUKA KOGYO CO., LTD., Japan on 12 - 14 December 2017, in order to verify the improving performances for cold flow property 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 (Cold flow property improver)  
 Product name: Wax Breaker  
 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:

| Wax Breaker<br>Dosing<br>Volume ratio<br><br>Test fuel oils | Without additive<br>[°C] |    | With additive<br>1/2000<br>[°C] |     | With additive<br>1/1000<br>[°C] |     | With additive<br>1/500<br>[°C] |     |
|---|--------------------------|----|---------------------------------|-----|---------------------------------|-----|--------------------------------|-----|
|   | CFPP                     | PP | CFPP                            | PP  | CFPP                            | PP  | CFPP                           | PP  |
| MGO   | 16                       | 15 | 14                              | -18 | 12                              | -30 | 3                              | -33 |
| LSGO A  | 8                        | 6  | -3                              | -15 | -6                              | -24 | -7                             | -27 |
| LSGO B  | 2                        | -3 | -12                             | -21 | -15                             | -27 | -15                            | -36 |

\* "MGO" means Marine Gas Oil and "LSGO" means Low Sulphur Gas Oil.

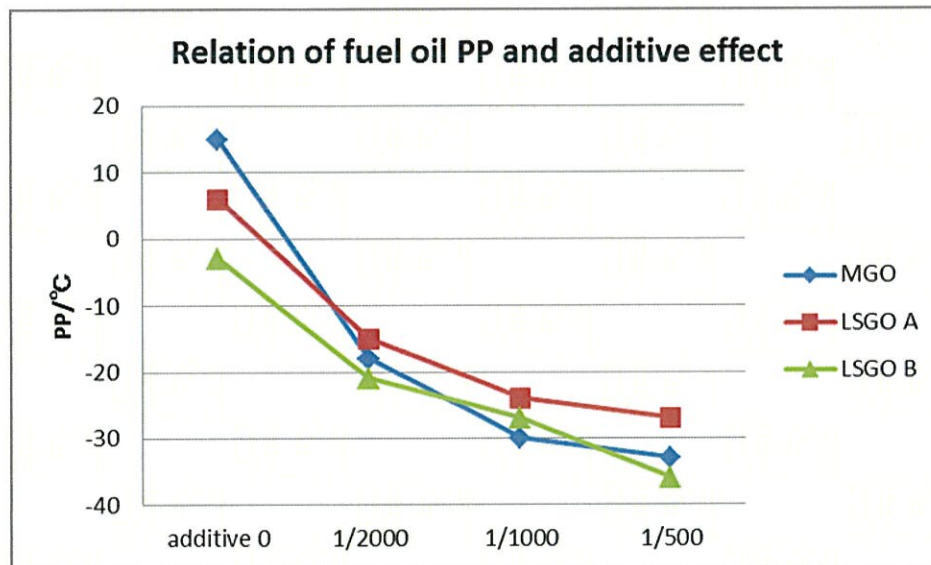
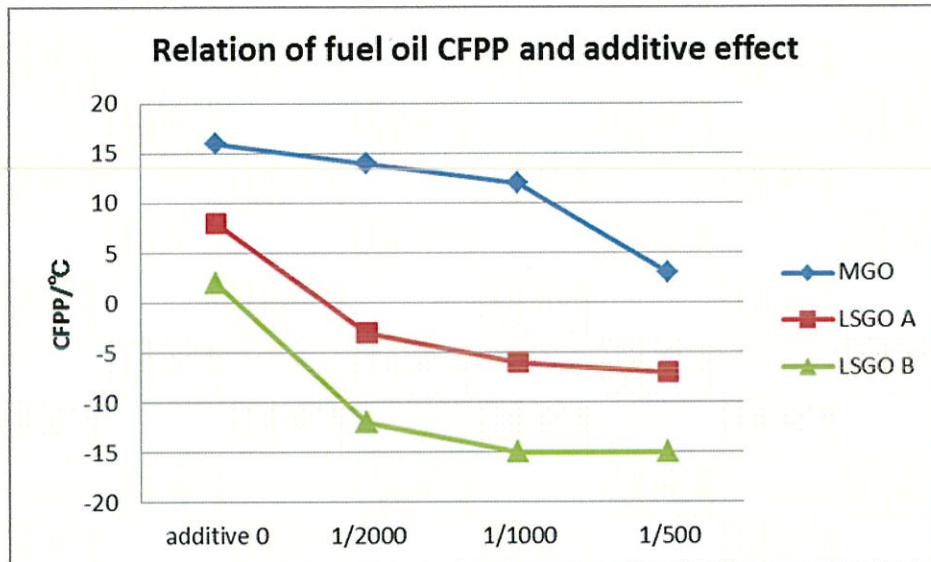
\* "CFPP" means Cold Filter Plugging Point and "PP" means Pour Point.

Above mentioned inspection test results were confirmed in accordance with test procedure and method.


By dosing fuel oil additive, Wax Breaker, to test fuel oils, it was confirmed that each numerical value of "CFPP" and "PP" as evaluation items of cold flow property was changed due to the effect as a cold flow property improver.



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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 "Wax Breaker"

This Report is issued subject to the condition that it is understood and agreed that neither the Society nor any of its Committees is under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by this Society or its Surveyors or in any entry in the Record or other publication of the Society or for any error of judgment, default or negligence of its Officers, Surveyors or Agents.