EXXONMOBIL ASIA PACIFIC PTE LTD 1 HARBOURFRONT PLACE, RU 4733 #06-00 HABOURFRONT TOWER ONE 098633, SINGAPORE Singapore



Attention of : ExxonMobil Distillate Supply Operations Your reference : INTB009FIN-2101-0546 / NK 5264815

Certificate of Analysis

Main Object : Lobelia Place of sampling : Koole Tankstorage Botlek

Report Date : 31-01-2021 Date received : 31-01-2021
Date of issue : 31-01-2021 Date completed : 31-01-2021
Sample object : Lobelia Sample number : 11125451

Sample type : Composite Sample submitted as : FAME -10

Marked : Barge Lobelia multiple tank composite prepared from running samples ex C1, C2, C4, C6,

C8 after loading from Shore tank 535, Shore tank 536

| NAME | METHOD | UNIT | SPECS | | RESULT |
|--|------------------|----------|-------|---------|----------------|
| | | | Min | Max | |
| Appearance 1 | Visual | - | | | Bright & Clear |
| FAME content | EN 14103 | mass % | 96.5 | | 98.9 |
| Density at 15 °C | ISO 12185 | kg/m³ | 860.0 | 900.0 | 882.8 |
| Kinematic Viscosity at 40°C | EN ISO 3104-2004 | mm²/s | 3.500 | 5.000 | 4.435 |
| Flash point (rapid equilibrium) | ISO 3679 | °C | 101 | | > 140 |
| Cetane Number | EN 15195 | - | 51.0 | | 52.4 |
| Copper Corrosion (3 hrs / 50 °C) | EN ISO 2160 | - | | Class 1 | 1A |
| Oxidation stability (110°C) | EN 14112 | hours | 8.0 | | > 11 |
| Acid Number | EN 14104 | mg KOH/g | | 0.50 | 0.32 |
| lodine value | EN 14111 | gI2/100g | | 120 | 108 |
| Linolenic acid methyl ester | EN 14103 | mass % | | 12.0 | 7.6 |
| Polyunsaturated methyl esters (>= 4 double bounds) | EN 15779 | mass % | | 1.0 | < 0.10 |
| Methanol | EN 14110 | mass % | | 0.20 | 0.04 |
| Glyceride content | EN 14105 | | | | |
| Mono-glyceride | | mass % | | 0.70 | 0.38 |
| Di-glyceride | | mass % | | 0.20 | 0.12 |
| Tri-glyceride | | mass % | | 0.20 | 0.10 |
| Free glycerol | | mass % | | 0.02 | < 0.010 |
| Total glycerol | | mass % | | 0.25 | 0.131 |
| Water Karl Fischer | EN ISO 12937 | mg/kg | | 500 | 260 |
| Contamination | EN 12662:1998 | mg/kg | | 24 | 11 |
| Sulphated ash | ISO 3987 | mass % | | 0.02 | < 0.005 |
| Sulphur (S) | EN ISO 20846 | mg/kg | | 10.0 | 4.3 |
| Group I metals (Na+K) | EN 14538 | mg/kg | | 5.0 | < 2.0 |
| Group II metals (Ca+Mg) | EN 14538 | mg/kg | | 5.0 | < 2.0 |
| Phosphorus content | EN 14107 | mg/kg | | 4.0 | < 4.0 |
| Cold Filter Plugging Point | EN 116 | °C | | -10 | -11 |
| Cloud Point | EN ISO 3015 | °C | | -3 | -5 |

All results in this report refer to the sample(s) tested as taken or submitted like specified in this Analysis report. Uncertainties, available on request, apply in the evaluation of the test results. All tests are conducted according to the latest version of the methods, unless another version is specifically indicated. Where available and for convenience purposes, the tested sample has been checked for compliance with supplied specifications, without accepting any liability. In case of dispute or concern, we refer to the interpretation of test results as defined in ASTM D3244, IP 367, ISO 4259 or GOST 33701. This report shall not be partially copied and reproduced without the written permission of the laboratory.

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: 12003/00046027.1/L/21 Composite prep date : 31-01-2021 Report number

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| NAME | METHOD | UNIT | SPE | :CS | RESULT |
|-------------|--------|-------|-----|-----|--------|
| | | | Min | Max | |
| BHT content | GC | mg/kg | | | 900 |

Remarks:

1 Bright & Clear

Signed by: Akash Gadjradj - Account Manager Issued by: Saybolt Nederland BV

Place and date of issue: Rotterdam-Botlek - 31-01-2021

Print Date: 31-01-2021 15:28

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