



BV - ISO 8217 DMA

Distillate Marine Fuel – February 17, 2026



**BUREAU
VERITAS**

In February 2026, the independent and accredited laboratory Bureau Veritas analyzed a sample of Distillate Marine Fuel treated with **XBEE Enzyme Fuel Technology**.

The analysis demonstrated that such fuel, also known as DMA remains in compliance with the ISO 8217:2017 DMA standard.

Conclusions:

Testing was performed after laboratory hand-blend XBEE fuel treatment at 4,000:1 XBEE, followed by a two-week retention period at constant temperature. The tested sample, blended with XBEE technology copes with the specification limits of DMA grade specifications according to ISO 8217:2017 standard.

Analyses	Methods	Without XBEE	With XBEE	Units	Limits
Appearance	Visual	Clear & Bright	Clear & Bright	-	Clear & Bright
Density at 15°C	EN ISO 12185	879.40	879.50	kg/m ³	890.00 max
Cetane index	ISO 4264	44.1	46.3	index	40.00 min
Viscosity at 40°C	EN ISO 3104	5.902	5.911	mm ² /s	2.00-6.00
Flash point PM – proc. A	EN ISO 2719	90.0	90.5	°C	60.0 min
Oxidation stability, 95°C	EN ISO 12205	3	17	g/m ³	25 max
Sulphur content (EDF)	EN ISO 8754	0.086	0.084	% m/m	1.00 max
Ash content	ISO 6245	<0.001	<0.001	% m/m	0.01 max
Carbon MCR on 10% residue	EN ISO 10370	0.04	<0.01	% wt	0.30 max
Lubricity, method HFRR	ISO 12156-1	332	338	µm	520 max
Hydrogen sulphide	IP 570 – Proc. A	<0.60	<0.60	mg/kg	2.00 max
Acid number	ASTM D664	0.03	0.03	mgKOH/g	0.5 max
Cloud point	EN 23015	+10	+7	°C	-
Cold filter plugging point	EN 116	+1	+3	°C	-
Pour point - Upper	ISO 3016	-21	-21	°C	0 max

Annexes

Original reports

Bureau Veritas Commodities Antwerp NV
Romeynsweel 14
2030 Antwerp
Belgium

T: +32 (0)3 546 08 88
E: labco@bureauveritas.com
commodities.bureauveritas.com



**BUREAU
VERITAS**



Certificate of Analysis

Our ref	BEANT-25-11573-XXV1999874	Asset	Submitted Sample
Location	Not specified	Seals	None
Product	DMA	Packed	Plastic
Reference id	XBEE	Submitted by	Ourselves
Sample received	13-02-2026	End of analysis	17-02-2026
Subject	Submitted samples		
Sample from	Sample as received		

Test	Method	Unit	Result
Viscosity at 40 °C (a)	EN ISO 3104	mm ² /s	5.902
Density at 15 °C (a)	EN ISO 12185	kg/m ³	879.4
Cetane Index (four equation)	ISO 4264		44.1
Sulphur (EDF) (a)	EN ISO 8754	%m/m	0.086
Flash Point PM - proc. A (a)	EN ISO 2719	Deg C	90
Hydrogen Sulphide	IP 570 - Proc. A	mg/kg	<0.60
Acid number	ASTM D664	mg KOH/g	0.03
Oxidation Stability, 95 °C	EN ISO 12205	g/m ³	3
MCR on 10 % residue	EN ISO 10370	% m/m	0.04
Cloud Point (a)	EN 23015	Deg C	10
Cold Filter Plugging Point (a)	EN 116	Deg C	1
Pour Point - Upper (a)	ISO 3016	Deg C	-21
Appearance	Visual		Clear&Bright
Ash content	ISO 6245	% m/m	<0.001
Lubricity, method HFRR	ISO 12156-1	micron	332

*Unless specified, the latest version at our disposal of the test methods has been used.
The results relate only to the items tested.*

AUTHORIZATION

Dario D'Heldt (Shiftleader)

Certified to ISO 9001
Trade Register Antwerp 333.309
VAT nr. BE 0465.326.123

All tests marked by (a)
are accredited by
BELAC ref. 486-TEST
ISO/IEC 17025



All services are rendered in accordance with Bureau Veritas's General Terms and Conditions of Business, available on request or at <https://commodities.bureauveritas.com/general-conditions-of-service>.
Laboratory Measurement Uncertainties are not taken into account for the evaluation of specification limits. If product is outside method scope; precision and accuracy of result cannot be guaranteed.

Method Validation data is available upon request.

Bureau Veritas Commodities Antwerp NV
Romeynsweel 14
2030 Antwerp
Belgium

T: +32 (0)3 546 08 88
E: labco@bureauveritas.com
commodities.bureauveritas.com



**BUREAU
VERITAS**



Certificate of Analysis

Our ref	BEANT-25-11573-XXV1999881	Asset	Submitted Sample
Location	Not specified	Seals	None
Product	DMA with XBEE additive doping	Packed	Plastic
Reference id	XBEE	Submitted by	Ourselves
Sample received	13-02-2026	End of analysis	04-03-2026
Subject	Submitted samples		
Sample from	Sample as received		

Test	Method	Unit	Result
Viscosity at 40 °C (a)	EN ISO 3104	mm ² /s	5.911
Density at 15 °C (a)	EN ISO 12185	kg/m ³	879.5
Cetane Index (four equation)	ISO 4264		46.3
Sulphur (EDF) (a)	EN ISO 8754	%m/m	0.084
Flash Point PM - proc. A (a)	EN ISO 2719	Deg C	90.5
Hydrogen Sulphide	IP 570 - Proc. A	mg/kg	<0.60
Acid number	ASTM D664	mg KOH/g	0.03
Oxidation Stability, 95 °C	EN ISO 12205	g/m ³	17
MCR on 10 % residue	EN ISO 10370	% m/m	<0.01
Cloud Point (a)	EN 23015	Deg C	7
Cold Filter Plugging Point (a)	EN 116	Deg C	3
Pour Point - Upper (a)	ISO 3016	Deg C	-21
Appearance (a)	Visual		clear&bright
Ash content	ISO 6245	% m/m	<0.001
Lubricity, method HFRR	ISO 12156-1	micron	338

Unless specified, the latest version at our disposal of the test methods has been used.
The results relate only to the items tested.

AUTHORIZATION

Certified to ISO 9001
Trade Register Antwerp 333.309
VAT nr. BE 0465.326.123

Jeroen Ceulemans (Laboratory Shiftleader)

All tests marked by (a)
are accredited by
BELAC ref. 486-TEST
ISO/IEC 17025



All services are rendered in accordance with Bureau Veritas's General Terms and Conditions of Business, available on request or at <https://commodities.bureauveritas.com/general-conditions-of-service>.
Laboratory Measurement Uncertainties are not taken into account for the evaluation of specification limits. If product is outside method scope; precision and accuracy of result cannot be guaranteed.

Method Validation data is available upon request.

v.XXV1999881.04032026.1750

p.1/1