



## Cover Page

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Please find enclosed a selection of documents of the underneath operation :

Client	: Targray Markets Europe SA
Client Reference #	: TMES-1184/1-A
Operation	: Petroleum Loading
Object	: North Carolina
Product	: FAME
Location	: Koole Tankstorage Botlek BV
AmSpec File #	: 621-23-03399
Calculation Method	: Table 54      B

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If you require any more information regarding above operation which are not included in this report, please let us know and we will inform you promptly and accordingly

Be advised that Field Documents with both signatures from the AmSpec Surveyor, Vessel's Representative and/or Installation are not always included in this report. Also the Certificate of Quality is not included in this Report and will be send to you, if applicable and/or on request, seperately by your designated AmSpec Representative.

Whenever you have a complaint or if you are not satisfied with our services, please contact us immediately at

[compliance@amspecgroup.com](mailto:compliance@amspecgroup.com)

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## Summary Report - Petroleum Loading

Jobfile # : 621-23-03399

**Barge** : North Carolina  
**Product** : FAME  
**Location** : Koole Tankstorage Botlek BV  
**Date** : 13/03/2023  
**Method used for calculation** : Table 54 B

<u>Bill of lading</u> (*)						
Bill of lading	Bill of Lading date	Dens 15°C vac	m³ at 15°C	mton vac	mton air	bbls at 60°F
# 1	13/03/2023	0.8774	3,740.809	3,282.286	3,278.172	23,539.34
<b>Total</b>		<b>0.8774</b>	<b>3,740.809</b>	<b>3,282.286</b>	<b>3,278.172</b>	<b>23,539.34</b>
Bill of Lading based on: <b>Shore measurements</b>		* Calculated by AmSpec for comparison only				

### Loadport comparison

<b>Ship loaded vs. Bill of Lading</b>			m³ at 15°C	mton vac	mton air	bbls at 60°F
Bill of Lading			3,740.809	3,282.286	3,278.172	23,539.34
Ship loaded			<u>3,747.730</u>	<u>3,288.258</u>	<u>3,284.256</u>	<u>23,582.89</u>
Difference			<b>6.921</b>	<b>5.972</b>	<b>6.084</b>	<b>43.55</b>
as percentage			<b>0.19%</b>	<b>0.18%</b>	<b>0.19%</b>	<b>0.19%</b>

### Delivered Quantity / Shore Measurements

<b>Delivered units</b>	Dens 15°C vac	m³ at 15°C	mton vac	mton air	bbls at 60°F
Shoretank 606	0.8828	600.220	529.874	529.214	3,776.93
Shoretank 608	0.8764	3,140.589	2,752.412	2,748.958	19,762.41
<b>Total</b>	<b>0.8774</b>	<b>3,740.809</b>	<b>3,282.286</b>	<b>3,278.172</b>	<b>23,539.34</b>

### Received Quantity / Ship's Figures

	Dens 15°C vac	m³ at 15°C	mton vac	mton air	bbls at 60°F
Ship's figures before loading (OBQ)					
Ship's figures after loading	0.8774	3,747.730	3,288.258	3,284.256	23,582.89
Ship's figures loaded	0.8774	3,747.730	3,288.258	3,284.256	23,582.89

Cargo stowed in tanks : **C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11**



## Summary Report - Petroleum Loading

Jobfile # : 621-23-03399

<b>Barge</b>	: North Carolina	<b>Date</b>	: 13/03/2023
<b>Product</b>	: FAME		
<b>Location</b>	: Koole Tankstorage Botlek BV	<b>Method used for calculation</b>	: Table 54 B

### Time Log

<u>Date</u>	<u>Time</u>	<u>Event</u>	<u>Remarks</u>
11-03-2023	11:00	Barge arrived at location / reported	
12-03-2023	08:45	Barge moored at the installation	
12-03-2023	10:00	Arm(s)/hose(s) connected	
12-03-2023	13:00	Barge inspected	
12-03-2023	14:00	COMMENCED LOADING	
13-03-2023	06:00	COMPLETED LOADING	
13-03-2023	06:48	Barge's tanks measured and sampled	
13-03-2023	11:30	Arm(s)/hose(s) disconnected	
13-03-2023	12:45	Barge unmoored	

### Samples

<u>Sample Phase</u>	<u>Sample description</u>	<u>Tank #</u>	<u>Amount</u>	<u>Volume (Litre)</u>	<u>Distribution</u>
During Loading	End Of ShoreLine		1 X	1	Retain
During Loading	Manifold		1 X	1	Retain
During Loading	1st Foot	C11	1 X	1	Analyse
After Loading	Running	C1,2,3,4,5,6,7,8,9,10,11	11 X	1	Analyse

**Total** **14**

### Remarks

Additional information and original signed forms are kept on file and will be made available upon first request.

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## Time Log

Jobfile # : 621-23-03399

**Barge:** North Carolina  
**Product:** FAME  
**Location:** Koole Tankstorage Botlek BV

**Date :** 12/03/2023

### Time Log

<u>Date</u>	<u>Time</u>	<u>Event</u>	<u>Remark</u>
11-03-2023	11:00	Barge arrived at location / reported	
12-03-2023	08:45	Barge moored at the installation	
12-03-2023	08:55	Surveyor notified initial inspection	
12-03-2023	10:00	Arm(s)/hose(s) connected	
12-03-2023	12:30	Surveyor on board initial inspection	
12-03-2023	13:00	Barge inspected	
12-03-2023	14:00	COMMENCED LOADING	
13-03-2023	06:00	COMPLETED LOADING	
13-03-2023	06:00	Surveyor notified final inspection	
13-03-2023	06:15	Surveyor on board final inspection	
13-03-2023	06:48	Barge's tanks measured and sampled	
13-03-2023	11:17	Documents on board	
13-03-2023	11:30	Arm(s)/hose(s) disconnected	
13-03-2023	12:45	Barge unmoored	

### DELAYS

<u>From</u>	<u>Until</u>	<u>Delay</u>	<u>Remark</u>

Signed for Barge:

Signed by AmSpec :

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## Quantity Request - Loading

Jobfile # : 621-23-03399

Barge : North Carolina  
Product : FAME  
Location : Koole Tankstorage Botlek BV

Date : 12/03/2023

Method used for calculation : ASTM T54 B

### LOAD PLAN

Please be informed that we received the following instructions from our principals to load the ship accordingly:

	mt VAC	Density *	m <sup>3</sup> @ 15°C
Nomination	3,260	0.8774	3,716

\* Density @ 15°C VAC

Tolerance : ACAP But Max

Correction table : ASTM Table 54 B

	Load from	mt VAC	Density *	m <sup>3</sup> @ 15°C	mass %	Temp °C	m <sup>3</sup> @ obs°C
1	SHT: 606	530	0.8828	600	16.26%	11.3	599
2	SHT: 608	2,730	0.8764	3115	83.74%	52.5	3212
3							
4							
5							
6							
7							
8							
Total :		3,260	0.8774	3715	100.00%	45.9	3811

Please call AmSpec 1 hour before completion. (Tel: +31 (0) 181 - 729600 24hrs)

Line displacement at start :

All quantities to be stopped by :

Cargotanks to be loaded :

Max capacity cargotanks (98%) :

Remarks :

Terminal instructions in-line with AmSpec:

Barge Instructions in-line with AmSpec:

TERMINAL

C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11

First Foot in Cargo tank ....

Yes

Yes

☐ Vessel is holding another parcel(s) of  
in cargo tank(s)

which has to be kept fully segregated during the entire operation. Since segregation is only controlled by ship's valves we are obliged to hold vessel fully responsible for any quantity or quality differences between parcels resulting due to the above stated fact.

☐ Vessel is holding slops in cargo tank(s)

Vessel is to keep these tanks completed segregated from the rest of the cargo on board during all the operation. Since segregation is only controlled by ship's valves we are obliged to hold vessel fully responsible for any quantity or quality differences between parcels resulting due to the above stated fact.

☒ As per instructions received from our clients vessel is hereby instructed to load above mentioned parcels pro-rata commingled evenly spread in nominated cargo tanks as far as operationally possible and always in accordance with vessel and terminal's safety regulations

Kindly verify our information with your own instructions and/or confirm with your principal.

Do not commence, inform Client immediately for clarification

Signed for Barge:

Signed for Installation:

Signed for AmSpec:

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Jobfile # : 621-23-03399  
Date : **12/03/2023**  
Time : **13:30**

Dear Captain / Chief Officer

With respect to the above mentioned cargo, we must advise you, on behalf of our principals, to evenly spread the following quantities in your cargotanks, according to this loadplan.

**Please note all volumes in each step mentioned are OBSERVED VOLUMES (m<sup>3</sup> @ observed temperature)**

Average anticipated temperature °C	:	
Calculated observed volume (total m³)	:	3,810,694
Max capacity cargotanks 98%	:	
Draft restriction (in m)	:	

*Signed for Vessel:*

*Signed for Amspec:*

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## Shore Measurements

Jobfile #: 621-23-03399

**Barge** : North Carolina  
**Product** : FAME  
**Location** : Koole Tankstorage Botlek BV

**Date** : 13/03/2023

**Method used for calculation** : ASTM Table 54 B

### Shore Measurements

Delivered Unit	Innage/Ullage	Temp	TOV	water dip	water vol.	Density 15°C	Roof corr.	GOV	GSV	mt vac	mt air
Shoretank 606	mm	°C	Litres observed	mm	Litres	kg/l 15° vac	Litres	Litres observed	Litres 15°C	metric tons	metric tons
Open	A	6024	11.29			0.8828		2,682,151	2,690,010	2,374.741	2,371.782
Close	A	4715	11.25			0.8828		2,083,619	2,089,790	1,844.867	1,842.568
Delivered quantity :						0.8828		598,532	600,220	529.874	529.214

M - Manual / A - ATG measurements

Delivered Unit	Innage/Ullage	Temp	TOV	water dip	water vol.	Density 15°C	Roof corr.	GOV	GSV	mt vac	mt air
Shoretank 608	mm	°C	Litres observed	mm	Litres	kg/l 15° vac	Litres	Litres observed	Litres 15°C	metric tons	metric tons
Open	A	7373	52.54			0.8764		3,318,081	3,217,809	2,820.088	2,816.548
Close	A	Water strapping	45.50			0.8764		79,259	77,220	67.676	67.590
Delivered quantity :						0.8764		3,238,822	3,140,589	2,752.412	2,748.958

M - Manual / A - ATG measurements

### ADDITIONAL DELIVERIES

Delivered Unit description	Temp °C	kg/l 15° vac	Litres observed	Litres 15°C	metric tons vac	metric tons air

### TOTAL DELIVERED QUANTITY

Temp °C	kg/l 15° vac	Litres observed	Litres 15°C	metric tons vac	metric tons air
46.1	0.8774	3,837,354	3,740,809	3,282.286	3,278.172
				US Barrels 60°F	US Gallons 60°F
				23,539.34	988,652
				Long Tons	
				3,226.398	

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## Certificate of Quantity

Jobfile # : 621-23-03399

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<b>Barge</b>	: North Carolina	<b>Date</b>	: 13/03/2023
<b>Product</b>	: FAME		
<b>Location</b>	: Koole Tankstorage Botlek BV	<b>Method used for calculation</b>	: ASTM Table 54 B

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### CERTIFICATE OF QUANTITY

Bill of Lading date : **13/03/2023**  
Quantity based on : **Shore measurements**  
The cargo was stowed in ship's tanks : **C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11**

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Liters observed	<b>3,837,354</b>
Litres @ 15°C	<b>3,740,809</b>
Cubic metres @ 15°C	<b>3,740.809</b>
Metric tons VAC	<b>3,282.286</b>
Metric tons AIR	<b>3,278.172</b>
US Barrels @ 60°F	<b>23,539.34</b>
US Gallons @ 60°F	<b>988,652</b>
* Long Tons	<b>3,226.398</b>
* Short Tons	<b>3,613.565</b>
Density @ 15°C kg/l VAC	<b>0.8774</b>
Litreweight @ 15°C kg/l AIR	<b>0.8763</b>

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### Conversion factors used

Main table used for calculations	ASTM Table
Metric tons VAC	MPMS 11.5.3 - 4.5
Metric tons AIR	MPMS 11.5.3 - 4.5
Long tons	MPMS 11.5 - Annex D
Short tons	MPMS 11.5 - Annex D
US Gallons @ 60°F	MPMS 11.5.3 - 4.24
US Barrels @ 60°F	MPMS 11.5.3 - 4.25
Relative density 60/60 °F	MPMS 11.5.3 - 4.3
API	MPMS 11.5.3 - 4.4

\* Calculated by AmSpec according to API guidelines and for comparison purposes.

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Signed by Vessel / Barge :

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Signed by AmSpec :

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