



Report No. TR-0007-01-2016
 Date of report 07-Jan-16
 Vessel Coral Palmata
 Location Habas A.S. Terminal, Yarimca
 Product ethylene, propylene

SUMMARY OF QUANTITIES

BOL No.	Product name	BOL date	Bill of Lading figures:	
			Metric Tons (vac)	Metric Tons (air)
001	ethylene	07-Jan-16	1,977.661	1,971.569
002	propylene	07-Jan-16	1,403.661	1,400.652

Comparison of Ship's figures, Bill of Lading and Outturn quantity

Totals of the Bills Of Lading	ethylene	propylene	Total
Total Metric tons (vacuo)	1,977.661	1,403.661	3,381.322
Total Metric tons (air)	1,971.569	1,400.652	3,372.221
GSV at 15°C, cu m	5,326.316	2,684.378	8,010.694

METRIC TONS IN VACUO (GROSS WEIGHT)

			Total
Vessel after loading	1,983.930	1,403.063	3,386.993
Vessel before discharge	1,978.684	1,399.588	3,378.272
Difference	-5.246	-3.475	-3.475
% Difference	-0.264%	-0.248%	-0.248%
Bill of Lading	1,977.661	1,403.661	3,381.322
Outturn quantity	1,970.952	1,399.111	3,370.063
Difference	-6.709	-4.550	-11.259
% Difference	-0.339%	-0.324%	-0.333%

METRIC TONS IN AIR (GROSS WEIGHT)

			Total
Vessel after loading	1,977.819	1,400.055	3,377.874
Vessel before discharge	1,972.589	1,396.588	3,369.177
Difference	-5.230	-3.467	-8.697
% Difference	-0.264%	-0.248%	-0.257%
Bill of Lading	1,971.569	1,400.652	3,372.221
Outturn quantity	1,964.881	1,396.112	3,360.993
Difference	-6.688	-4.540	-11.228
% Difference	-0.339%	-0.324%	-0.333%

CUBIC METRES AT 15°C (GROSS STANDARD VOLUME)

			Total
Vessel after loading	5,343.20	2,683.23	8,026.43
Vessel before discharge	5,329.07	2,676.59	8,005.66
Difference	-14.13	-6.65	-6.65
% Difference	-0.264%	-0.248%	-0.248%
Bill of Lading	5,326.32	2,684.38	8,010.69
Outturn quantity	5,308.25	2,675.68	7,983.92
Difference	-18.07	-8.70	-26.77
% Difference	-0.339%	-0.324%	-0.334%

Remarks:

Liquid and vapour densities of ethylene calculated as per NBS 1045-1981 by R.D. McCarty and R.T. Jacobsen

Liquid and vapour densities of propylene calculated as per IUPAC, Propylene (Propene), International Thermodynamic Tables of Fluid State - 7, by S. Angus, B. Armstrong, K. M. de Reuck, published by Pergamon Press in 1980



**CERTIFICATE OF QUANTITY
DISCHARGED**

Report No.	TR-0007-01-2016
Date of report	07-Jan-16
Vessel	Coral Palmata
Location	Habas A.S. Terminal, Yarimca
Product	ethylene, propylene
Outturn date	07-Jan-16

Shore tank figures:

<u>GRAND TOTALS:</u>	<u>ethylene</u>	<u>propylene</u>	<u>Grand Totals</u>
Total Metric tons in vacuo :	1,970.952	1,399.111	3,370.063
Total Long tons in vacuo :	1,939.824	1,377.014	3,316.838
Total Short tons in vacuo :	2,172.603	1,542.256	3,714.859
Total Pounds in vacuo :	4,345,205.366	3,084,511.761	7,429,717.127
1 Pound / 1 Metric ton :	0.00045359	0.00045359	
Weight Correction Factor :	0.996919632988958	0.997856164678524	
Total Metric tons in air :	1,964.881	1,396.112	3,360.993
Total Long tons in air :	1,933.849	1,374.063	3,307.912
Total Short tons in air :	2,165.911	1,538.950	3,704.861
Total Pounds in air :	4,331,821.102	3,077,900.098	7,409,721.200
US Gallons at 60°F :	1,408,374.680	707,865.220	2,116,239.900
US Barrels at 60°F :			
Standard Volume at 15°C, cu m :	5,308.247	2,675.676	7,983.923
Average Density at 15°C, kg/l :	0.3713	0.5229	

Liquid and vapour densities of ethylene calculated as per NBS 1045-1981 by R.D. McCarty and R.T. Jacobsen

Liquid and vapour densities of propylene calculated as per IUPAC, Propylene (Propene), International Thermodynamic Tables of Fluid State - 7, by S. Angus, B. Armstrong, K. M. de Reuck, published by Pergamon Press in 1980



RECEIPT FOR DOCUMENTS

Report No. TR-0007-01-2016
Date of report 07-Jan-16
Vessel Coral Palmata
Location Habas A.S. Terminal, Yarimca
Product ethylene, propylene
Outturn date 07-Jan-16

This is to confirm that I, undersigned Ship's Officer did receive from the undersigned Surveyor the following documents:

Document Title	Qty
Receipt For Documents	One
Time Log	One
Ullage Report before Discharge	One
Ullage Report after Discharge	One
Vessel Experience Report	One
Tank Inspection Report	One
Total Pages:	6

Instructions regarding documents:	1 set for Vessel's own use
-----------------------------------	----------------------------

Should you have any query, or require any additional information, please contact Mr John Smith at our London office (telephone number +44 207 123 45 67).

Chief Officer of "Coral Palmata": V. Koshevoy

For and on behalf of Global Survey Solutions Limited: A. Sezer



Report No. TR-0007-01-2016
 Date of report 07-Jan-16
 Vessel Coral Palmata
 Location Habas A.S. Terminal, Yarimca
 Product ethylene, propylene
 Outturn date 07-Jan-16

TIME LOG

Time	Date	Operations
11:55	06-Jan-16	Vessel arrived at roads (End of Sea Passage)
11:55	06-Jan-16	Notice of Readiness tendered
12:10	06-Jan-16	Vessel anchored - awaiting berthing instructions
13:20	06-Jan-16	Cleared by Customs / Free Pratique granted
16:10	06-Jan-16	Pilot on board
16:15	06-Jan-16	Anchor aweigh - proceeding to berth
17:00	06-Jan-16	Commenced mooring (first line ashore)
17:15	06-Jan-16	Inspector on board
17:45	06-Jan-16	Vessel all fast alongside berth no. 1
17:50	06-Jan-16	Vessel tanks measured
18:00	06-Jan-16	Hose connected
18:15	06-Jan-16	Notice of Readiness received/accepted
18:25	06-Jan-16	Cargo calculation completed
18:30	06-Jan-16	Commenced Discharging
04:00	07-Jan-16	Completed Discharging
04:30	07-Jan-16	ROB in Vessel's tanks measured
05:00	07-Jan-16	Hose disconnected
05:00	07-Jan-16	Discharged quantity calculation completed
05:10	07-Jan-16	Inspector's documents on board
05:30	07-Jan-16	Official cargo documents on board
05:35	07-Jan-16	Inspector left the vessel
05:50	07-Jan-16	Vessel sailed (ETS)

DELAYS				REASON
From		To		
11:55	06-Jan-16	16:10	06-Jan-16	Awaiting free jetty
04:05	07-Jan-16	04:30	07-Jan-16	Blowing lines

Remarks: (*) - As per information received from the Master of the vessel

Sea water temperature, °C
3.5

General weather condition
Calm

Product Name	Pumping time hours minutes	Outturn figure Mt air	Pumping rate Mt air / hour
ethylene	9 hours 30 minutes	1964.881	206.830
propylene	9 hours 30 minutes	1396.112	146.959

Chief Officer of "Coral Palmata": V. Koshevoy

For and on behalf of Global Survey Solutions Limited: A. Sezer



Report No. TR-0007-01-2016
 Date of report 07-Jan-16
 Vessel Coral Palmata
 Location Habas A.S. Terminal, Yarimca
 Product ethylene, propylene
 Outturn date 07-Jan-16

VESSEL ULLAGE REPORT BEFORE DISCHARGE

UNITS: Volume: **cu.m.** Linear: **m.** Temp: **°C** Pressure: **bar** Atmospheric pressure: 1.01325

Tank No.	1P	1S	2P	2S	3P	3S		
Cargo	ethylene	ethylene	ethylene	ethylene	propylene	propylene		
100% capacity of tanks:	1,079.130	1,078.520	1,253.350	1,252.750	1,250.460	1,249.850		
Observed Liquid Innage, m	5.222	5.230	8.282	8.270	8.263	8.251		
Liquid Temperature, °C	-102.20	-102.00	-101.40	-101.10	-51.40	-51.10		
Vapour Temperature, °C	-101.10	-101.00	-100.80	-101.40	-46.90	-46.30		
Vapour Gauge Pressure, bar	0.56675	0.56675	0.58675	0.58675	0.00675	0.00675		
Inert gases, %								

Liquid Phase Total: 3,375.490 MT (vacuo)

Correction for Trim / List, m	0.008	0.008	-0.002	-0.002	-0.002	-0.002		
Correction for Float Buoy., m	0.007	0.007	0.007	0.007	0.007	0.007		
Correction for Tape, m	0.001	0.001						
Corrected Liquid Innage, m	5.238	5.246	8.287	8.275	8.268	8.256		
Liquid Volume, m ³	608.708	609.450	1,148.076	1,146.120	1,145.210	1,141.434		
Shrinking Factor	0.996136	0.996142	0.996162	0.996172	0.997812	0.997822		
Volume corrected, m ³	606.356	607.099	1,143.670	1,141.733	1,142.704	1,138.948		
Liquid Density, Mt/m ³	0.3713	0.3713	0.3713	0.3713	0.5229	0.5229		
Liquid Metric tons (vac)	343.016	343.254	645.602	644.052	701.163	698.403		

Vapour Phase Total: 2.782 MT (vacuo)

Vapour Volume, m ³	470.422	469.070	105.274	106.630	105.250	108.416		
Corr.Vap.Vol. for Inert Gas	470.422	469.070	105.274	106.630	105.250	108.416		
Shrinking Factor	0.996172	0.996175	0.996182	0.996162	0.997961	0.997980		
Volume corrected, m ³	468.621	467.276	104.872	106.221	105.035	108.197		
Vapour Density, Mt/m ³	0.002401	0.002414	0.002439	0.002364	0.000103	0.000105		
Vapour Metric tons (vac)	1.125	1.128	0.256	0.251	0.011	0.011		

Total Metric tons (vac)	344.141	344.382	645.858	644.303	701.174	698.414		
Correction Factor to air	0.99692	0.99692	0.99692	0.99692	0.99786	0.99786		
Total Metric tons (air)	343.081	343.321	643.869	642.318	699.671	696.917		
GSV at 15°C, cu m	926.854	927.503	1,739.451	1,735.263	1,340.933	1,335.655		

Before discharge:

Total Metric tons (vac)	344.141	344.382	645.858	644.303	701.174	698.414		
Total Metric tons (air)	343.081	343.321	643.869	642.318	699.671	696.917		
GSV at 15°C, cu m	926.854	927.503	1,739.451	1,735.263	1,340.933	1,335.655		

Total quantity before discharge:	ethylene	propylene	Total
Metric Tons (vacuo)	1,978.684	1,399.588	3,378.272
Metric Tons (air)	1,972.589	1,396.588	3,369.177
Cubic Metres at 15°C	5,329.071	2,676.588	8,005.659

Sea Condition : Calm
 Draft FWD : 6.80 m
 AFT : 7.30 m
 TRIM : 0.50 m
 LIST : Nil

Remarks :

Vessel calculations based upon calibration tables for the Gas Carrier "Coral Palmata"

Chief Officer of "Coral Palmata": V. Koshevoy

For and on behalf of Global Survey Solutions Limited: A. Sezer



Report No. TR-0007-01-2016
 Date of report 07-Jan-16
 Vessel Coral Palmata
 Location Habas A.S. Terminal, Yarimca
 Product ethylene, propylene
 Outturn date 07-Jan-16

VESSEL ULLAGE REPORT AFTER DISCHARGE

UNITS: Volume: **cu.m.** Linear: **m.** Temp: **°C** Pressure: **bar** Atmospheric pressure: 1.01325

Tank No.	1P	1S	2P	2S	3P	3S		
Cargo	ethylene	ethylene	ethylene	ethylene	propylene	propylene		
100% capacity of tanks:	1,079.130	1,078.520	1,253.350	1,252.750	1,250.460	1,249.850		
Observed Liquid Innage, m								
Liquid Temperature, °C								
Vapour Temperature, °C	-100.90	-100.90	-101.10	-101.10	-46.00	-46.00		
Vapour Gauge Pressure, bar	0.56675	0.56675	0.58675	0.58675	0.00675	0.00675		
Inert gases, %								

Liquid Phase							Total, Mt vac:	MT (vacuo)
Correction for Trim / List, m								
Correction for Float Buoy, m								
Correction for Tape, m								
Corrected Liquid Innage, m								
Liquid Volume, m ³								
Shrinking Factor								
Volume corrected, m ³								
Liquid Density, Mt/m ³								
Liquid Metric tons (vac)								

Vapour Phase							17.095 MT (vacuo)
Vapour Volume, m ³	1,079.130	1,078.520	1,253.350	1,252.750	1,250.460	1,249.850	
Corr.Vap.Vol. for Inert Gas	1,079.130	1,078.520	1,253.350	1,252.750	1,250.460	1,249.850	
Shrinking Factor	0.996179	0.996179	0.996172	0.996172	0.997990	0.997990	
Volume corrected, m ³	1,075.006	1,074.399	1,248.552	1,247.954	1,247.947	1,247.338	
Vapour Density, Mt/m ³	0.002427	0.002427	0.002401	0.002401	0.002358	0.002358	
Vapour Metric tons (vac)	2.609	2.608	2.998	2.996	2.943	2.941	

After discharge:							
Total Metric tons (vac)	2.609	2.608	2.998	2.996	2.943	2.941	
Correction Factor to air	0.99692	0.99692	0.99692	0.99692	0.99786	0.99786	
Total Metric tons (air)	2.601	2.600	2.989	2.987	2.937	2.935	
GSV at 15°C, cu m	7.027	7.024	8.074	8.069	5.628	5.624	

Quantity Discharged:							
Total Metric tons (vac)	341.532	341.774	642.860	641.307	698.231	695.473	
Total Metric tons (air)	340.480	340.721	640.880	639.331	696.734	693.982	
GSV at 15°C, cu m	919.827	920.479	1,731.377	1,727.194	1,335.305	1,330.031	

Total Quantity Discharged:	ethylene	propylene	Total
Metric Tons (vacuo)	1,967.473	1,393.704	3,361.177
Metric Tons (air)	1,961.412	1,390.716	3,352.128
Cubic Metres at 15°C	5,298.877	2,665.336	7,964.213

Sea Condition : Calm
 Draft FWD : 3.30 m
 AFT : 5.60 m
 TRIM : 2.30 m
 LIST : Nil

Remarks :

Vessel calculations based upon calibration tables for the Gas Carrier "Coral Palmata"

Chief Officer of "Coral Palmata": V. Koshevoy

For and on behalf of Global Survey Solutions Limited: A. Sezer



Report No. TR-0007-01-2016
 Date of report 07-Jan-16
 Vessel Coral Palmata
 Loadport Odessa
 Product ethylene, propylene
 Bill of Lading date 07-Jan-16

**VESSEL ULLAGE REPORT
(LOADPORT)**

UNITS: Volume: **cu.m.** Linear: **m.** Temp: **°C** Pressure: **bar** Atmospheric pressure: 1.01325

Tank No.	1P	1S	2P	2S	3P	3S		
Cargo	ethylene	ethylene	ethylene	ethylene	propylene	propylene		
100% capacity of tanks:	1,079.130	1,078.520	1,253.350	1,252.750	1,250.460	1,249.850		
Observed Liquid Innage, m	5.220	5.230	8.281	8.272	8.262	8.253		
Liquid Temperature, °C	-102.10	-102.00	-101.40	-101.10	-51.40	-51.10		
Vapour Temperature, °C	-1.10	-1.00	-0.80	-1.40	-45.10	-46.70		
Vapour Gauge Pressure, bar	0.57675	0.57675	0.58675	0.58675	0.00675	0.00675		
Inert gases, %								

Liquid Phase Total: 3,385.716 MT (vacuo)

Correction for Trim / List, m	0.008	0.008	-0.002	-0.002	-0.002	-0.002		
Correction for Float Buoy, m	0.007	0.007	0.007	0.007	0.007	0.007		
Correction for Tape, m	0.001	0.001						
Corrected Liquid Innage, m	5.236	5.246	8.286	8.277	8.267	8.258		
Liquid Volume, m ³	608.982	609.870	1,148.543	1,145.874	1,146.400	1,142.350		
Shrinking Factor	0.999335	0.999350	0.999368	0.999379	0.999368	0.999379		
Volume corrected, m ³	608.577	609.474	1,147.817	1,145.162	1,145.675	1,141.641		
Liquid Density, Mt/m ³	0.3713	0.3713	0.3713	0.3713	0.5229	0.5229		
Liquid Metric tons (vac)	344.150	344.597	647.943	645.986	702.986	700.054		

Vapour Phase Total: 1.277 MT (vacuo)

Vapour Volume, m ³	470.148	468.650	104.807	106.876	104.060	107.500		
Corr.Vap.Vol. for Inert Gas	470.148	468.650	104.807	106.876	104.060	107.500		
Shrinking Factor	0.999377	0.999380	0.999386	0.999368	0.999323	0.999340		
Volume corrected, m ³	469.855	468.359	104.743	106.808	103.990	107.429		
Vapour Density, Mt/m ³	0.001088	0.001086	0.001105	0.001105	0.000111	0.000103		
Vapour Metric tons (vac)	0.511	0.509	0.116	0.118	0.012	0.011		
Total Metric tons (vac)	344.661	345.106	648.059	646.104	702.998	700.065		
Correction Factor to air	0.9969196	0.9969196	0.9969196	0.9969196	0.9978562	0.9978562		
Total Metric tons (air)	343.599	344.043	646.063	644.114	701.491	698.564		
GSV at 15°C, cu m	928.255	929.453	1,745.378	1,740.113	1,344.421	1,338.812		

Total Metric tons (vac)	344.661	345.106	648.059	646.104	702.998	700.065		
Total Metric tons (air)	343.599	344.043	646.063	644.114	701.491	698.564		
GSV at 15°C, cu m	928.255	929.453	1,745.378	1,740.113	1,344.421	1,338.812		

	ethylene	propylene	Total
Metric Tons (vacuo)	1,983.930	1,403.063	3,386.993
Metric Tons (air)	1,977.819	1,400.055	3,377.874
Cubic Metres at 15°C	5,343.199	2,683.233	8,026.432

Sea Condition : Calm

Draft FWD :

AFT :

TRIM :

LIST : Nil

Remarks :

Vessel calculations based upon calibrations tables for the Gas Carrier "Coral Palmata"

Chief Officer of "Coral Palmata"

For and on behalf of Global Survey Solutions Limited: A. Sezer



Report No. TR-0007-01-2016
 Date of report 07-Jan-16
 Vessel Coral Palmata
 Location Habas A.S. Terminal, Yarimca
 Product ethylene, propylene
 Outturn date 07-Jan-16

VESSEL EXPERIENCE REPORT

Voyage	Bill of Lading date	Cargo	Loadport	Vessel's figure Mt	Bill of Lading Mt	Vessel Load Ratio	Qualifying
Last	01-Jan-16	ethylene	Midia	2,049.060	2,086.624	0.98179	Yes
2nd last	23-Nov-15	Propane	Constanta	2,429.700	2,472.350	0.98301	Yes
3rd last	12-Oct-15	Butane	Odessa	2,471.430	2,500.718	0.98800	No
4th last	26-Sep-15	ethylene	Odessa	2,560.350	2,600.794	0.98424	Yes
5th last	15-Aug-15	ethylene	Midia	2,618.850	2,664.228	0.98311	Yes
6th last	07-Aug-15	Propane	Constanta	2,616.120	2,661.076	0.98309	Yes
7th last	23-Jul-15	Butane	Botas	2,477.670	2,517.660	0.98411	Yes
8th last	12-Jul-15	Propane	Szczecin	2,308.020	2,345.088	0.98422	Yes
9th last	23-Jun-15	Propane	Amsterdam	2,549.820	2,591.338	0.98418	Yes
10th last	15-Jun-15	ethylene	Odessa	2,239.380	2,269.440	0.98678	Yes

Voyages excluded : When Bill Of Lading is based on shipboard measurements. Voyages prior to any structural cargo tank modifications. Lighterings. First voyage after dry dock.	Total	24,320.400	24,709.316
	Total Qualifying	21,848.970	22,208.598
	First average		0.98426
	+ 0.3 %		0.98721
	- 0.3 %		0.98131
	Second Average		0.98381
	+ 0.3 %		0.98676
	- 0.3 %		0.98086

Ship's figures this voyage (Excluding ROB)	3,361.177	Vessel Experience Factor based on 2nd average 0.9838
Bill of Lading this voyage	3,381.322	
Vessel loaded ratio this voyage	0.99404	

The above mentioned quantities are for the last 0 voyages as obtained from ship's record and cannot be guaranteed as accurate by the surveyor. No liability can be assumed for errors resulting from improper information supplied by the vessel.

Remarks:

For receipt,
 Chief Officer of "Coral Palmata": V. Koshevoy

For and on behalf of
 Global Survey Solutions Limited
 Surveyor's name A. Sezer



VESSEL TANK INSPECTION REPORT

Report No. TR-0007-01-2016
Date of report 07-Jan-16
Vessel Coral Palmata
Location Habas A.S. Terminal, Yarimca
Product ethylene, propylene
Outturn quantity 07-Jan-16

Tank inspection was carried out: Time: 04:30 Date: 07-Jan-16

Inspection of "Coral Palmata" at on the January 7, 2016.

GENERAL INFORMATION

Name of Vessel: Coral Palmata
Loading Place: Habas A.S. Terminal, Yarimca
Installation: Gas Terminal, berth No. 1
Date: 07-Jan-16
Cargoes to be loaded: ethylene
propylene

INFORMATION OBTAINED ON BOARD

Previous cargoes: ethylene in cargo tanks: 1P, 1S, 2P, 2S
propylene 3P, 3S
Quantity remaining on board: 17.049 Metric Tons (air)
Method of cleaning, if any: none

TEST RESULTS ON VAPOURS AFTER PURGING WITH NITROGEN

Oxygen Content, % by volume: Less than 0.3

CONCLUSION

As the oxygen content was below the limit of 0.3% by volume and previous cargo being compatible with cargoes to be loaded, all ships cargo tanks were found to be in a satisfactory condition to receive designated cargoes.

For receipt,
Chief Officer of "Coral Palmata": V. Koshevoy

For and on behalf of
Global Survey Solutions Limited
Surveyor's name A. Sezer



Report No. TR-0007-01-2016
Date of report 07-Jan-16
Vessel Coral Palmata
Location Habas A.S. Terminal, Yarimca
Product ethylene, propylene
Outturn date 07-Jan-16

SAMPLE RECEIPT

Product	Sample source	Size	Sample description	Seal No.	Sample Distribution
ethylene	In-line autosampler	1 Ltr.	Taken during discharge	12345	For Receiver
ethylene	Single ship's tank composite	1 Ltr.	Multiple ship's tank composite	12346	For Receiver
propylene	In-line autosampler	1 Ltr.	Taken during loading	12347	For Receiver
propylene	Single ship's tank composite	1 Ltr.	Multiple ship's tank discharge	12348	For Receiver

Date: 07-Jan-16 Receipt acknowledged

Chief Officer of "Coral Palmata": V. Koshevoy

Surveyor's name A. Sezer



Report No. TR-0007-01-2016
Date of report 07-Jan-16
Vessel Coral Palmata
Location Habas A.S. Terminal, Yarimca
Product ethylene, propylene
Outturn date 07-Jan-16

SAMPLE REPORT

Product	Sample source	Size	Sample description	Seal No.	Sample Distribution
ethylene	In-line autosampler	1 Ltr.	Taken during discharge	12351	For testing
propylene	In-line autosampler	1 Ltr.	Taken during discharge	12352	For testing

Date:

| Surveyor's name A. Sezer



ANALYSIS REPORT
(Grade 1: ethylene)
After Discharge

Report No. TR-0007-01-2016
Date of report 07-Jan-16
Vessel Coral Palmata
Location Habas A.S. Terminal, Yarimca
Product ethylene
Outturn date 07-Jan-16
Sample submitted as: ethylene
Sample drawn: by In-line autosampler
Sample description: In-line autosample taken during loading
Received on: 06-Jan-16
Testing performed by: Global Survey Solutions Limited Laboratory
Testing performed on: 07-Jan-16

Test	Units	Method	Specification	Result
Ethylene	volume %	Gas chromatography	99.9 min.	99.91
Carbon Monoxide	volume ppm	Gas chromatography	5 max.	4
Oxygen	volume ppm	Gas chromatography	2 max.	1
Carbon Dioxide	volume ppm	Gas chromatography	6 max.	5
Sulphur	volume ppm	ASTM D4468	3 max.	2
Hydrogen	volume ppm	Gas chromatography	5 max.	4
Acetylene	volume ppm	Gas chromatography	5 max.	3
C3 and heavier	volume ppm	Gas chromatography	5 max.	3
Methane and Ethane	volume ppm	Gas chromatography	1000 max.	872
Water	volume ppm	Gas chromatography	5 max.	4
Methanol	volume ppm	UOP 344	3 max.	2

Chemist:



ANALYSIS REPORT
(Grade 2: propylene)
After Discharge

Report No. TR-0007-01-2016
Date of report 07-Jan-16
Vessel Coral Palmata
Location Habas A.S. Terminal, Yarimca
Product propylene
Outturn date 07-Jan-16
Sample submitted as: propylene
Sample drawn: by In-line autosampler
Sample description: In-line autosample taken during loading
Received on: 06-Jan-16
Testing performed by: Global Survey Solutions Limited Laboratory
Testing performed on: 07-Jan-16

Test	Units	Method	Specification	Result
Propylene	volume %	Gas chromatography	99.5 min.	99.52
Propane + Ethane	volume %	Gas chromatography	0.5 max.	0.38
Ethane	ppm volume	Gas chromatography	2000 max.	937
Ethylene	ppm volume	Gas chromatography	10 max.	8
Acetylene	ppm volume	ASTM D4468	10 max.	6
Methyl acetylene + propadiene	ppm volume	Gas chromatography	20 max.	14
Non saturated C4	ppm volume	Gas chromatography	5 max.	3
Water	ppm mass	UOP 344	30 max.	23
Hydrogen Sulphide (H2S)	ppm mass	Detection tube	2 max.	1
Total Sulphur	ppm volume	ASTM D4468	2 max.	1
Oxygen	ppm volume	Gas chromatography	5 max.	3
Carbon Monoxide	ppm volume	Gas chromatography	5 max.	4

Chemist:



LETTER OF PROTEST ON APPARENT DISCREPANCY

Report No. TR-0007-01-2016
 Date of report 07-Jan-16
 Vessel Coral Palmata
 Location Habas A.S. Terminal, Yarimca
 Product ethylene
 Outturn date 07-Jan-16

To: To Whom It May Concern

At the Port of:

Dear Sir,

On behalf of our principal(s), we hereby notify you that on the day of the following occurrence was noted:

APPARENT DISCREPANCY:

<u>Grade 1</u>	ethylene
Including OBQ/ROB	
Metric Tons in vacuo (Gross Weight)	
Vessel after loading	1,983.930
Vessel before discharge	1,978.684
Difference	-5.246
% Difference	-0.264%
Bill of Lading	1,977.661
Outturn quantity	1,970.952
Difference	-6.709
% Difference	-0.339%
Including OBQ/ROB	
Metric Tons in air (Gross Weight)	
Vessel after loading	1,977.819
Vessel before discharge	1,972.589
Difference	-5.230
% Difference	-0.264%
Bill of Lading	1,971.569
Outturn quantity	1,964.881
Difference	-6.688
% Difference	-0.339%

Accordingly, we are holding you responsible for the loss and damage thereby sustained, as well as any consequential arising therefrom.

Please direct any written correspondence on this matter to:

Mr. John Smith
 Global Survey Solutions Ltd.

Tel: +44 207 123 45 67
 Email: ops@surveycalc.com
 Email: info@surveycalc.com

Very truly yours:

Receipt acknowledged:

Date:
 Signed by:
 For: Surveyor

Date:
 Signed by:
 For: Ship



LETTER OF PROTEST ON APPARENT DISCREPANCY

Report No. TR-0007-01-2016
 Date of report 07-Jan-16
 Vessel Coral Palmata
 Location Habas A.S. Terminal, Yarimca
 Product propylene
 Outturn date 07-Jan-16

To: To Whom It May Concern

At the Port of:

Dear Sir,

On behalf of our principal(s), we hereby notify you that on the day of the following occurrence was noted:

APPARENT DISCREPANCY:

Grade 2	propylene
Including OBQ/ROB Metric Tons in vacuo (Gross Weight)	
Vessel after loading	1,403.063
Vessel before discharge	1,399.588
Difference	-3.475
% Difference	-0.248%
Bill of Lading	1,403.661
Outturn quantity	1,399.111
Difference	-4.550
% Difference	-0.324%
Including OBQ/ROB Metric Tons in air (Gross Weight)	
Vessel after loading	1,400.055
Vessel before discharge	1,396.588
Difference	-3.467
% Difference	-0.248%
Bill of Lading	1,400.652
Outturn quantity	1,396.112
Difference	-4.540
% Difference	-0.324%

Accordingly, we are holding you responsible for the loss and damage thereby sustained, as well as any consequential arising therefrom.

Please direct any written correspondence on this matter to:

Mr. John Smith
Global Survey Solutions Ltd.

Tel: +44 207 123 45 67
Email: ops@surveycalc.com
Email: info@surveycalc.com

Very truly yours:

Receipt acknowledged:

Date:
Signed by:
For: Surveyor

Date:
Signed by:
For: Ship



STATEMENT OF FACTS

Report No. TR-0007-01-2016
Date of report 07-Jan-16
Vessel Coral Palmata
Location Habas A.S. Terminal, Yarimca
Product ethylene, propylene
Outturn date 07-Jan-16

For the attention of: To Whom It May Concern
Copy to:

At the Port of: Tarragona

Dear Sirs,

On behalf of our principal(s), we hereby notify you that on the day of the following occurrence was noted:

Due to the moderate swelling the measurements taken on board Gas Carrier "Ramagas" may affect on accuracy of determination of quantity of ethylene and propylene in ship's tanks.

Very truly yours:

Date:

Signed by:

For: Surveyor



Report No. TR-0007-01-2016
 Date of report 07-Jan-16
 Vessel Coral Palmata
 Location Habas A.S. Terminal, Yarimca
 Outturn date 07-Jan-16

SHORE TANK REPORT
 Page 1 of 1

Atmospheric pressure, bar: 1.01325

LIQUID PHASE	Tank No. K5		Tank No. K6		Tank No.	
	Before	After	Before	After	Before	After
Product	ethylene	ethylene	propylene	propylene		
Date dd-mm-yy	06-Jan-16	07-Jan-16	06-Jan-16	07-Jan-16		
Time 0000	18:30	04:00	18:30	04:00		
Total Tank Volume cu m	4,998.449	4,998.449	4,994.324	4,994.324		
Shrinkage Factor for Total Volume	0.99621	0.99618	0.99792	0.99786		
Total Volume Corrected cu m	4,979.505	4,979.355	4,983.936	4,983.636		
Liquid level corrected m		13.430		8.721		
Liquid Volume cu m		3,516.071		2,283.322		
Liquid Temperature °C		-101.1		-51.2		
Shrinkage Factor for Liquid Volume		0.99766		0.99878		
Liquid Volume Corrected cu m		3,507.843		2,280.536		
Density at 15°C kg/l	0.3713	0.3713	0.5229	0.5229		
Observed Liquid Density kg/l		0.5644		0.6135		
Liquid Mass Mt		1,979.827		1,399.109		
VAPOUR PHASE						
Vapour Vol. Corrected cu m	4,979.505	1,471.512	4,983.936	2,703.100		
Vapour Temperature °C	-100.0	-100.5	-48.0	-48.5		
Vapour Gauge Pressure bar	1.08675	3.48675	0.88675	2.18675		
Molecular Mass g/mole	0.004	0.004	0.002	0.004		
Vapour Density kg/l	0.002543	0.002574	0.002059	0.0043		
Vapour Mass Mt	12.663	3.788	0.010	0.012		
Total Mass Mt	12.663	1,983.615	0.010	1,399.121		
Difference, Mass Mt		1,970.952		1,399.111		
Total Weight in Air Mt	12.624	1,977.505	0.010	1,396.122		
Difference, Weight in Air Mt		1,964.881		1,396.112		
GSV at 15°C cu m	34.104	5,342.351	0.019	2,675.695		
Difference, GSV at 15°C cu m		5,308.247		2,675.676		

LIQUID PHASE	Tank No.		Tank No.		Tank No.	
	Before	After	Before	After	Before	After
Product						
Date dd-mm-yy						
Time 0000						
Total Tank Volume cu m						
Shrinkage Factor for Total Volume						
Total Volume Corrected cu m						
Liquid level corrected m						
Liquid Volume cu m						
Liquid Temperature °C						
Shrinkage Factor for Liquid Volume						
Liquid Volume Corrected cu m						
Density at 15°C kg/l						
Observed Liquid Density kg/l						
Liquid Mass Mt						
VAPOUR PHASE						
Vapour Vol. Corrected cu m						
Vapour Temperature °C						
Vapour Gauge Pressure bar						
Molecular Mass g/mole						
Vapour Density kg/l						
Vapour Mass Mt						
Total Mass Mt						
Difference						
Total Weight in Air Mt						
Difference, Weight in Air Mt						
GSV at 15°C cu m						
Difference, GSV at 15°C cu m						

SUB TOTALS:	Product :	ethylene	propylene	Sub Totals
Total Metric tons (vacuo) :		1,970.952	1,399.111	3,370.063
Total Metric tons (air) :		1,964.881	1,396.112	3,360.993
GSV at 15°C, cu m :		5,308.247	2,675.676	7,983.923

Terminal Representative: M. Olmez

Surveyor's name A. Sezer