



Your Reference :

Report No. RU 021342  
 Date of report 29-Dec-12  
 Vessel Kuzguncuk  
 Location Tamaneftegas Terminal  
 Product LPG mix, Propane  
 Bill of Lading date: 29-Dec-12

## CONTENTS LISTING

We have pleasure in enclosing herewith, our report for the above referenced inspection.  
 The inspection was carried out according to the following reports:

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Bill Of Lading No. 045/3P (Propane)	One
Certificate Of Quantity Loaded (LPG mix, Propane)	One
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Analysis Report (Grade 1: LPG mix) - After Loading	One
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Should you have any query, or require any additional information, please contact Mr  
 at our office (telephone number + ).



Report No. RU 021342  
 Date of report 29-Dec-12  
 Vessel Kuzguncuk  
 Location Tamanneftegas Terminal  
 Product LPG mix, Propane

## SUMMARY OF QUANTITIES

			<b>Bill of Lading figures:</b>		
BOL No.	Product name	BOL date	Metric Tons (vac)	Metric Tons (air)	GSV at 15°C, cu m
045/3LPG	LPG mix	29-Dec-12	1,788.243	1,784.398	3,366.421
045/3P	Propane	29-Dec-12	1,633.035	1,629.361	3,185.788

### BILLS OF LADING

Totals of the Bills Of Lading	LPG mix	Propane		<b>Grand Totals</b>
Total Metric tons (vacuo)	1,788.243	1,633.035		3,421.278
Total Metric tons (air)	1,784.398	1,629.361		3,413.759
GSV at 15°C, cu m	3,366.421	3,185.788		6,552.209

### TOTAL SHORE FIGURES

Totals of Shore Tanks and Shore Lines	LPG mix	Propane		<b>Grand Totals</b>
Total Metric tons (vacuo)	1,791.576	1,633.437		3,425.013
Total Metric tons (air)	1,787.701	1,629.762		3,417.463
GSV at 15°C, cu m	3,372.619	3,186.429		6,559.048

comprising of

### SHORE TANK FIGURES

Totals of Shore Tanks	LPG mix	Propane		<b>Grand Totals</b>
Total Metric tons (vacuo)	1,791.576	1,633.437		3,425.013
Total Metric tons (air)	1,787.701	1,629.762		3,417.463
GSV at 15°C, cu m	3,372.619	3,186.429		6,559.048

### SHORE PIPELINE FIGURES

Totals of Shore Tanks and Shore Lines	LPG mix	Propane		<b>Grand Totals</b>
Total Metric tons (vacuo)				
Total Metric tons (air)				
GSV at 15°C, cu m				

For and on behalf of ZAO "Tamanneftegas": A. Sharipov

Code name: **Intankbill 2003**



# BILL OF LADING

B/L no. 045/3LPG

Ref. no. \_\_\_\_\_

Shipper: <b>HYDRO CARBON COMMODITIES TRADING LIMITED</b> from resources of OJSC "Gazpromneft"		Notify Party/Address:	
Consignee: To the order of Oxton Trading Group		Vessel: <b>KUZGUNCUK</b>	
		Port or Place of Loading: <b>TAMAN, RUSSIA</b>	
		Port or Place of Discharge: <b>ITALY FOR ORDERS</b>	
Shipper's Description of Cargo:	Shippers's Weight:	Shipper's Volume:	Date shipped on board:
<b>LPG MIX</b>  <b>CLEAN ON BOARD</b> <b>FREIGHT PAYABLE AS PER CHARTER PARTY</b>	<b>1,788.243 Mt in vacuo</b>  <b>1,784.398 Mt in air</b>	<b>3,366.421</b> <b>Cubic Metres at 15°C</b>	

<p>Issued pursuant and subject to all terms of the CHARTERPARTY</p> <p>Dated <u>DECEMBER 30, 1999</u></p> <p>Between _____ _____ (Owner)</p> <p>HCCT _____ _____ (Charterer)</p> <p>Freight is payable in accordance therewith.</p> <p>Carrier (Name and Principal Place of Business)</p> <p>_____</p> <p>Place and Date of Issue: <b>TAMAN, RUSSIA</b></p> <p>Dated: <b>DECEMBER 29, 2012</b></p>	<p>SHIPPED at the Port or Place of Loading in apparent good order and condition aboard the above Vessel for carriage to the port or Place of Discharge (or so near thereto as she may safely get) the goods specified above Weight, measure, quality, condition, contents and value unknown.</p> <p>IN WITNESS whereof the Master or Agent of the Vessel has signed <b>3 (THREE)</b> original Bills of Lading all of this tenor and date, any of which being accomplished the others shall be void.</p> <p>_____</p> <p>Signature _____ Carrier or, for the Carrier</p> <p><b>Emmanuel Salva Dimpas</b> as Master (Master's name and signature)</p> <p>_____ as Agents (Agents' name and signature)</p>
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SEE CONDITIONS OF CARRIAGE OVERLEAF

Code name: **Intankbill 2003****BILL OF LADING**B/L no. **045/3P**

Ref. no. \_\_\_\_\_

Shipper: <b>HYDRO CARBON COMMODITIES TRADING LIMITED</b> from resources of OJSC "Gazpromneft"		Notify Party/Address:	
Consignee: To the order of Oxton Trading Group		Vessel: <b>KUZGUNCUK</b>	
		Port or Place of Loading: <b>TAMAN, RUSSIA</b>	
		Port or Place of Discharge: <b>ITALY FOR ORDERS</b>	
Shipper's Description of Cargo:	Shippers's Weight:	Shipper's Volume:	Date shipped on board:
<b>PROPANE</b>  <b>CLEAN ON BOARD</b> <b>FREIGHT PAYABLE AS PER CHARTER PARTY</b>	<b>1,633.035 Mt in vacuo</b>  <b>1,629.361 Mt in air</b>	<b>3,185.788</b> <b>Cubic Metres at 15°C</b>	
Issued pursuant and subject to all terms of the CHARTERPARTY Dated <u>DECEMBER 30, 1999</u> Between _____ _____ (Owner) HCCT _____ (Charterer) Freight is payable in accordance therewith. Carrier (Name and Principal Place of Business) _____ Place and Date of Issue: <u>TAMAN, RUSSIA</u> Dated: <b>DECEMBER 29, 2012</b>		SHIPPED at the Port or Place of Loading in apparent good order and condition aboard the above Vessel for carriage to the port or Place of Discharge (or so near thereto as she may safely get) the goods specified above Weight, measure, quality, condition, contents and value unknown.  IN WITNESS whereof the Master or Agent of the Vessel has signed <b>3 (THREE)</b> original Bills of Lading all of this tenor and date, any of which being accomplished the others shall be void.  _____ Signature _____ Carrier or, for the Carrier  <u>Emmanuel Salva Dimpas</u> as Master (Master's name and signature)  _____ as Agents (Agents' name and signature)	

SEE CONDITIONS OF CARRIAGE OVERLEAF



## CERTIFICATE OF QUANTITY LOADED

Report No.	RU 021342
Date of report	29-Dec-12
Vessel	Kuzguncuk
Location	Tamaneftegas Terminal
Product	LPG mix, Propane
Bill of Lading date:	29-Dec-12

### Shore tank figures:

<b><u>GRAND TOTALS:</u></b>	<b><u>LPG mix</u></b>	<b><u>Propane</u></b>	<b><u>Grand Totals</u></b>
Total Metric tons (vacuo) :	1,791.576	1,633.437	3,425.013
Total Metric tons (air) :	1,787.701	1,629.762	3,417.463
GSV at 15°C, cu m :	3,372.619	3,186.429	6,559.048
Average Density at 15°C, kg/l :	0.5312	0.5126	

For and on behalf of ZAO "Tamaneftegas": A. Sharipov





Report No. RU 021342  
 Date of report 29-Dec-12  
 Vessel Kuzguncuk  
 Location Tamaneftegas Terminal  
 Bill of Lading date: 29-Dec-12

**Before:** Date: 24-Dec-12 Time: 10:15  
**After:** Date: 29-Dec-12 Time: 16:42

Ambient Temperature, °C: 6.4 Tank walls made of Russian steel  
 Ambient Temperature, °C: 6.2 Insulated or not: Not insulated  
 Calibration Temperature, °C: 20.0

**SHORE TANK REPORT**  
 Page 2 of 2

VCF calculated by API Standard 2540, MPMS Ch 11.2 dated 2007

Before			LIQUID PHASE										VAPOUR PHASE													
			Pressure units: kg/cm2																							
Shore tank No.	Grade	Total Tank Volume, cu m	Liquid Innage, m	Liquid Volume, cu m	Liquid Line Volume cu m	Shrinkage Factor	Liquid Volume Corrected cu m	Density @15°C kg/l	Liquid T°C	VCF by Table 54E	Liquid Volume at 15°C, cu m	Liquid Mass, Mt	Vapour Volume, cu m	Vapour Line Volume cu m	Shrinkage Factor	Vapour Volume Corrected, cu m	Vapour T°C	Vapour Pressure	Molecular Mass, g/mole	Vapour Density, kg/m³	Vapour Mass, Mt	Total Mass, Mt	Total Weight in Air, Mt	Difference Mass, Mt	Difference Weight in Air, Mt	Difference GSV at 15°C, cu m
29	LPG mix	605.849	1.427	140.355		0.99954	140.290	0.5368	0.8	1.03357	145.000	77.836	465.494		0.99951	465.266	-0.3	7.478	49.829	18.3615	8.543	86.379	86.193	70.101	69.950	130.591
31	LPG mix	619.470	3.357	435.869		0.99943	435.621	0.5319	-3.9	1.04538	455.389	242.221	183.601		0.99945	183.500	-3.2	6.151	48.999	15.4095	2.828	245.049	244.522	231.233	230.736	434.730
32	LPG mix	614.004	3.764	496.800		0.99948	496.542	0.5289	-2.0	1.04163	517.213	273.554	117.204		0.99943	117.137	-3.9	5.010	48.817	12.9521	1.517	275.071	274.480	259.812	259.254	491.231

After			LIQUID PHASE										VAPOUR PHASE													
			Pressure units: kg/cm2																							
Shore tank No.	Grade	Total Tank Volume, cu m	Liquid Innage, m	Liquid Volume, m	Liquid Line Volume cu m	Shrinkage Factor	Liquid Volume Corrected cu m	Density @15°C kg/l	Liquid T°C	VCF by Table 54E	Liquid Volume at 15°C, cu m	Liquid Mass, Mt	Vapour Volume, cu m	Vapour Line Volume cu m	Shrinkage Factor	Vapour Volume Corrected, cu m	Vapour T°C	Vapour Pressure	Molecular Mass, g/mole	Vapour Density, kg/m³	Vapour Mass, Mt	Total Mass, Mt	Total Weight in Air, Mt			
29	LPG mix	605.849	0.386	19.943		0.99956	19.934	0.5368	1.8	1.03127	20.557	11.035	585.906		0.99956	585.648	1.8	3.142	49.829	8.9533	5.243	16.278	16.243			
31	LPG mix	619.470	0.354	15.954		0.99948	15.946	0.5319	-1.6	1.04005	16.585	8.822	603.516		0.99956	603.250	1.7	2.890	48.999	8.2778	4.994	13.816	13.786			
32	LPG mix	614.004	0.388	19.137		0.99963	19.130	0.5289	5.1	1.02462	19.601	10.367	594.867		0.99960	594.629	3.8	2.910	48.817	8.2269	4.892	15.259	15.226			

Before Loading				After Loading				Loaded			
SUB TOTALS:	Product :	LPG mix	Propane	Sub Totals	LPG mix	Propane	Sub Totals	Product :	LPG mix	Propane	Sub Totals
Metric tons (vacuo):		606.499		606.499	45.353		45.353		606.499		606.499
Metric tons (air):		605.195		605.195	45.255		45.255		605.195		605.195
GSV at 15°C, cu m:		1,141.701		1,141.701	85.149		85.149		1,141.701		1,141.701

Terminal Representative: A. Sharipov

Surveyor's name: A. Lotkov



Отчет № RU 021342  
Дата отчета 29-дек-12  
Судно Kuzguncuk  
Место терминал Таманьнефтегаз  
Продукт СПБТ, пропан

## СВОДНЫЙ ОТЧЕТ ПО КОЛИЧЕСТВУ

Коносамент №	Название продукта	Дата коносамента	Коносаментное количество:		
			Метрические тонны в вакууме	Метрические тонны на воздухе	GSV при 15°C, м <sup>3</sup>
045/3LPG	СПБТ	29-дек-12	1,788.243	1,784.398	3,366.421
045/3P	пропан	29-дек-12	1,633.035	1,629.361	3,185.788

### КОЛИЧЕСТВО ПО КОНОСАМЕНТАМ

Итого по коносаментам	СПБТ	пропан		Всего
Всего Метрических тонн в вакууме	1,788.243	1,633.035		3,421.278
Всего Метрических тонн на воздухе	1,784.398	1,629.361		3,413.759
GSV при 15°C, м <sup>3</sup>	3,366.421	3,185.788		6,552.209

### ОБЩЕЕ БЕРЕГОВОЕ КОЛИЧЕСТВО

Итого по береговым замерам	СПБТ	пропан		Всего
Всего Метрических тонн в вакууме	1,791.576	1,633.437		3,425.013
Всего Метрических тонн на воздухе	1,787.701	1,629.762		3,417.463
GSV при 15°C, м <sup>3</sup>	3,372.619	3,186.429		6,559.048

в том числе

### КОЛИЧЕСТВО ПО БЕРЕГОВЫМ РЕЗЕРВУАРАМ

Итого по береговым резервуарам	СПБТ	пропан		Всего
Всего Метрических тонн в вакууме	1,791.576	1,633.437		3,425.013
Всего Метрических тонн на воздухе	1,787.701	1,629.762		3,417.463
GSV при 15°C, м <sup>3</sup>	3,372.619	3,186.429		6,559.048

### КОЛИЧЕСТВО ПО БЕРЕГОВЫМ ТРУБОПРОВОДАМ

Итого по береговым трубопроводам	СПБТ	пропан		Всего
Всего Метрических тонн в вакууме				
Всего Метрических тонн на воздухе				
GSV при 15°C, м <sup>3</sup>				

От имени и по поручению ЗАО "Таманьнефтегаз": А. Шарипов





## СЕРТИФИКАТ ПОГРУЖЕННОГО КОЛИЧЕСТВА

Отчет №	RU 021342
Дата отчета	29-дек-12
Судно	Kuzguncuk
Место	терминал Таманьнефтегаз
Продукт	СПБТ, пропан
Дата коносамент	29-дек-12

### Количество по береговым резервуарам:

<b><u>ИТОГО:</u></b>	<b><u>СПБТ</u></b>	<b><u>пропан</u></b>	<b><u>Всего</u></b>
Всего Метрических тонн в вакууме	1,791.576	1,633.437	3,425.013
Всего Метрических тонн на воздухе	1,787.701	1,629.762	3,417.463
GSV при 15°C, м <sup>3</sup>	3,372.619	3,186.429	6,559.048
Средняя плотность при 15°C, кг/л :	0.5312	0.5126	

От имени и по поручению ЗАО "Таманьнефтегаз": А. Шарипов





Отчет № RU 021342  
 Дата отчета 29-дек-12  
 Судно Kuzguncuk  
 Место терминал Таманьнефтегаз  
 Дата коносоамента 29-дек-12

**До:** Дата: 24-дек-12 Время: 10:15  
**После:** Дата: 29-дек-12 Время: 16:42

Окружающая температура, °C: 6.4  
 Окружающая температура, °C: 6.2  
 Материал стенок: Российская сталь  
 Изолированы или нет: Неизолированы  
 Температура калибровки, °C: 20.0

**АКТ ПОГРУЗКИ ИЗ РЕЗЕРВУАРОВ**  
 Страница 2 из 2

VCF подсчитан по API Standard 2540, MPMS Ch 11.2, издан в 2007 году

До			ЖИДКАЯ ФАЗА										ГАЗОВАЯ ФАЗА										РАЗНОСТЬ (до - после)			
Резервуар №	Сорт груза	Общий объем резервуара, м <sup>3</sup>	Взлив жидкой фазы, м	Объем жидкой фазы, м <sup>3</sup>	Объем линии (жид.), м <sup>3</sup>	Кэф-фициент сжатия	Откорр. объем жидкой фазы, м <sup>3</sup>	Плотность (15°C) кг/л	Жидкая фаза, Т°С	VCF по Таблице 54E	Объем жидкой фазы 15°C, м <sup>3</sup>	Масса жидкой фазы, МТ	Объем газовой фазы, м <sup>3</sup>	Объем линии (газ.), м <sup>3</sup>	Кэф-фициент сжатия	Откорр. объем газовой фазы, м <sup>3</sup>	Газовая фаза, Т°С	Давление газов. фазы	Молекулярная масса, г/моль	Плотность газ. фазы, кг/м <sup>3</sup>	Масса газовой фазы, МТ	Общая масса, МТ	Общий вес на воздухе, МТ	Разность массы, МТ	Разница веса на воздухе, МТ	Разница GSV при 15°C, м <sup>3</sup>
29	СПБТ	605.849	1.427	140.355		0.99954	140.290	0.5368	0.8	1.03357	145.000	77.836	465.494		0.99951	465.266	-0.3	7.478	49.829	18.3615	8.543	86.379	86.193	70.101	69.950	130.591
31	СПБТ	619.470	3.357	435.869		0.99943	435.621	0.5319	-3.9	1.04538	455.389	242.221	183.601		0.99945	183.500	-3.2	6.151	48.999	15.4095	2.828	245.049	244.522	231.233	230.736	434.730
32	СПБТ	614.004	3.764	496.800		0.99948	496.542	0.5289	-2.0	1.04163	517.213	273.554	117.204		0.99943	117.137	-3.9	5.010	48.817	12.9521	1.517	275.071	274.480	259.812	259.254	491.231

После			ЖИДКАЯ ФАЗА										ГАЗОВАЯ ФАЗА										РАЗНОСТЬ (до - после)			
Резервуар №	Сорт груза	Общий объем резервуара, м <sup>3</sup>	Взлив жидкой фазы, м	Объем жидкой фазы, м <sup>3</sup>	Объем линии (жид.), м <sup>3</sup>	Кэф-фициент сжатия	Откорр. объем жидкой фазы, м <sup>3</sup>	Плотность (15°C) кг/л	Жидкая фаза, Т°С	VCF по Таблице 54E	Объем жидкой фазы 15°C, м <sup>3</sup>	Масса жидкой фазы, МТ	Объем газовой фазы, м <sup>3</sup>	Объем линии (газ.), м <sup>3</sup>	Кэф-фициент сжатия	Откорр. объем газовой фазы, м <sup>3</sup>	Газовая фаза, Т°С	Давление газов. фазы	Молекулярная масса, г/моль	Плотность газ. фазы, кг/м <sup>3</sup>	Масса газовой фазы, МТ	Общая масса, МТ	Общий вес на воздухе, МТ	Разность массы, МТ	Разница веса на воздухе, МТ	Разница GSV при 15°C, м <sup>3</sup>
29	СПБТ	605.849	0.386	19.943		0.99956	19.934	0.5368	1.8	1.03127	20.557	11.035	585.906		0.99956	585.648	1.8	3.142	49.829	8.9533	5.243	16.278	16.243			
31	СПБТ	619.470	0.354	15.954		0.99948	15.946	0.5319	-1.6	1.04005	16.585	8.822	603.516		0.99956	603.250	1.7	2.890	48.999	8.2778	4.994	13.816	13.786			
32	СПБТ	614.004	0.388	19.137		0.99963	19.130	0.5289	5.1	1.02462	19.601	10.367	594.867		0.99960	594.629	3.8	2.910	48.817	8.2269	4.892	15.259	15.226			

Перед погрузкой				После погрузки				Погружено			
ИТОГО	Продукт	СПБТ	пропан	Всего	СПБТ	пропан	Всего	СПБТ	пропан	Всего	
Метрические тонны (вак.):		606.499		606.499	45.353		45.353	606.499		606.499	
Метрические тонны (возд.):		605.195		605.195	45.255		45.255	605.195		605.195	
GSV при 15°C, м <sup>3</sup> :		1,141.701		1,141.701	85.149		85.149	1,141.701		1,141.701	

Представитель терминала ЗАО "Таманьнефтегаз": А. Шарипов

Имя сорвейера: А. Лотков



## RECEIPT FOR DOCUMENTS

Report No. RU 021342  
Date of report 29-Dec-12  
Vessel Kuzguncuk  
Location Tamanneftegas Terminal  
Product LPG mix, Propane  
Bill of Lading date: 29-Dec-12

Chief Officer of "":  
This is to confirm that I, undersigned Ship's Officer did receive from  
the undersigned person the following documents:

Document Title	Qty
Receipt For Documents	One
Time Log	One
Bill of Lading	Two
Certificate of Quantity	One
Statement Of Facts	One
Cerificate of Quality	Two
Total Pages:	8

Instructions regarding documents:	1 set for Vessel's own use
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Should you have any query, or require any additional information, please contact Mr  
at our office (telephone number + ).

Surveyor's name

A. Lotkov

Chief Officer of "":

A. Sahin



Report No. RU 021342  
 Date of report 29-Dec-12  
 Vessel Kuzguncuk  
 Location Tamanneftegas Terminal  
 Product LPG mix, Propane  
 Bill of Lading date: 29-Dec-12

## TIME LOG

Time	Date	Operations		
03:24	27-Dec-12	Vessel arrived at roads (End of Sea Passage)		
03:30	27-Dec-12	Notice of Readiness tendered		
04:12	27-Dec-12	Vessel anchored - awaiting berthing instructions		
09:12	28-Dec-12	Pilot on board		
09:15	28-Dec-12	Anchor aweigh - proceeding to berth		
11:24	28-Dec-12	Commenced mooring (first line ashore)		
11:48	28-Dec-12	Vessel all fast alongside berth no. 4		
13:30	28-Dec-12	Cleared by Customs / Free Pratique granted		
13:42	28-Dec-12	Loading master on board		
13:42	28-Dec-12	Inspector on board		
14:12	28-Dec-12	Tank inspection completed		
14:48	28-Dec-12	OBQ calculation completed		
15:15	28-Dec-12	Hose connected		
15:15	28-Dec-12	Notice of Readiness received/accepted		
01:30	29-Dec-12	Commenced Loading LPG mix		
09:12	29-Dec-12	Completed Loading LPG mix		
09:42	29-Dec-12	Commenced Loading Propane		
16:54	29-Dec-12	Completed Loading Propane		
17:15	29-Dec-12	Vessel's tanks measured		
17:30	29-Dec-12	Hose disconnected		
19:30	29-Dec-12	Official cargo documents on board		
19:30	29-Dec-12	Loading Master left the vessel		
19:45	29-Dec-12	Inspector left the vessel		
21:24	29-Dec-12	Vessel sailed (ETS)		
DELAYS				
From		To		REASON
03:30	27-Dec-12	09:12	28-Dec-12	

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

Sea water temperature, °C
5.2

General weather condition
calm

Product Name	Pumping time hours minutes	Bill of Lading Mt air	Pumping rate Mt air / hour
LPG mix	7 hours 42 minutes	1784.398	231.740
Propane	7 hours 12 minutes	1629.361	226.300

Chief Officer of "Kuzguncuk": A. Sahin  
 Surveyor's name A. Lotkov



Report No. RU 021342  
Date of report 29-Dec-12  
Vessel Kuzguncuk  
Location Tamaneftegas Terminal  
Product LPG mix, Propane  
Bill of Lading date: 29-Dec-12

### SAMPLE REPORT

Product	Sample source	Size	Sample description	Seal No.	Sample Distribution
Propane	In-line autosampler	2 Ltr.	Taken during discharge	Open	For testing
Propane	Single ship's tank composite	10 x 1 Ltr.	Taken before discharge	Open	For testing
LPG mix	In-line autosampler	2 Ltr.	Taken during discharge	Open	For testing
LPG mix	Single ship's tank composite	9 x 1 Ltr.	Taken before discharge	Open	For testing

Date:

Load Master's name:



Report No. RU 021342  
Date of report 29-Dec-12  
Vessel Kuzguncuk  
Location Tamanneftegas Terminal  
Product LPG mix, Propane  
Bill of Lading date: 29-Dec-12

### LETTER OF PROTEST

To: To Whom It May Concern

At the Port of Taman

Dear Sirs,

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

The nature of the previous cargo in ship's tanks may deteriorate the quality of the cargo to be loaded.  
We reserve the right to refer to this fact at the later date.

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:

Tel: +7 495 123 45 67  
Fax: +7 495 123 45 68  
Email: ops@tamaneftegas.ru

Very truly yours:

Date: December 29, 2012

Signed by: A. Sharipov

For: Tamanneftegas

Receipt acknowledged:

Date:

Signed by:

For:



Report No. RU 021342  
 Date of report 29-Dec-12  
 Vessel Kuzguncuk  
 Location Tamanneftegas Terminal  
 Product LPG mix, Propane  
 Bill of Lading date: 29-Dec-12

**STATEMENT OF FACTS**

For the attention of: To Whom It May Concern

At the Port of:

Dear Sirs,

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

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On behalf of our shippers Messrs. Tengizchevroil we draw your attention to the fact that Ship's Log contained less than 5 voyages qualified calculation VEF, we were unable to calculate VEF, therefore it cannot be applied for ship's calculations.

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Please direct any written correspondence on this matter to:

Tel: +7 495 123 45 67  
 Fax: +7 495 123 45 68  
 Email: ops@tamanneftegas.ru

Very truly yours:

Date:

Signed by: A. Sharipov

For: Tamanneftegas





Report No. RU 021342  
Date of report 29-Dec-12  
Vessel Kuzguncuk  
Location Tamanneftegas Terminal  
Product LPG mix  
Bill of Lading date: 29-Dec-12  
Sample submitted as: LPG mix  
Sample drawn: by In-line autosampler  
Sample description: In-line autosample taken during loading  
Received on: 29-Dec-12  
Testing performed by: ZAO "Tamanneftegas" Laboratory

**ANALYSIS REPORT**  
**(Grade 1: LPG mix)**  
**After Loading**

On the: 29-Dec-12

Test	Units	Method	Specification	Result
Composition liquid		ASTM D 2163 ASTM D 2421		
Methane	mass %			0.02%
Ethane	mass %			0.02%
Propane	mass %			91.01%
Propylene	mass %			0.02%
n-Butane	mass %			4.85%
Isobutane	mass %			3.95%
n-Pentane	mass %			0.01%
Isopentane	mass %			0.12%
Molecular Weight		Calculated		45.056
Relative Density 15.6/15.6°C (60/60°F) (in vacuo)		Calculated		0.5126
Copper strip corrosion		ASTM D 1838		No. 1A
Hydrogen Sulphide	ppm	ASTM D 2420		Nil
Hydrogen Sulphide (H <sub>2</sub> S)	ppm	UOP 212		Nil
Free water content	ppm	ASTM D 1835		None
Residue on evaporation	volume %	ASTM D 2158		< 0.05
Methanol	ppm	ISO 8174		Nil

Chemist:



Report No. RU 021342  
 Date of report 29-Dec-12  
 Vessel Kuzguncuk  
 Location Tamanneftegas Terminal  
 Product Propane  
 Bill of Lading date: 29-Dec-12  
 Sample submitted as: Propane  
 Sample drawn: by In-line autosampler  
 Sample description: In-line autosample taken during loading  
 Received on: 29-Dec-12  
 Testing performed by: ZAO "Tamanneftegas" Laboratory

**ANALYSIS REPORT**  
**(Grade 2: Propane)**  
**After Loading**

On the: 29-Dec-12

Test	Units	Method	Specification	Result
Composition liquid		ASTM D 2163 ASTM D 2421		
Methane	mass %			0.14%
Ethane	mass %			2.37%
Propane	mass %			50.20%
Propylene	mass %			1.25%
n-Butane	mass %			29.03%
Isobutane	mass %			16.25%
1-Butene	mass %			0.03%
trans-2-Butene	mass %			0.03%
cis-2-Butene	mass %			0.11%
Isobutylene	mass %			0.03%
n-Pentane	mass %			0.22%
Isopentane	mass %			0.32%
Neopentane	mass %			0.02%
Molecular Weight		Calculated		48.876
Relative Density 15.6/15.6°C (60/60°F) (in vacuo)		Calculated		0.5312
Copper strip corrosion		ASTM D 1838		No. 1A
Hydrogen Sulphide	ppm	ASTM D 2420		Nil
Hydrogen Sulphide (H <sub>2</sub> S)	ppm	UOP 212		Nil
Carbonyl Sulphide (COS)	ppm	UOP 212		Nil
Free water content	ppm	ASTM D 1835		None
Residue on evaporation	volume %	ASTM D 2158		< 0.05
Methanol	ppm	ISO 8174		Nil

Chemist: