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Date	24-Jun-14
Operation	RTC discharge (shipment 1)
Location	St. Petersburg Oil Terminal
Product	Crude Oil
Discharge date	25-Jun-14

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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Should you have any query, or require any additional information, please contact
"Petrochemtest" Limited Liability Company



Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

**SUMMARY OF QUANTITIES
 DISCHARGED**
By manual measurements

ASTM Calculation

Gross Calculation

	Metric Tons Vacuo	Metric Tons Air	GSV at 15°C	US Barrels at 60°F
RWB figures	4,110.093	4,104.489	5,202,649	32,741.683
Surveyor's figures	4,066.901	4,061.343	5,157,757	32,459.172
Difference	-43.192	-43.146	-44,892	-282.511
%	-1.051%	-1.051%	-0.863%	-0.863%
Outturn figures	4,085.084	4,079.499	5,169,030	32,530.110
Surveyor's figures	4,066.901	4,061.343	5,157,757	32,459.172
Difference	-18.183	-18.156	-11,273	-70.938
%	-0.445%	-0.445%	-0.218%	-0.218%
RWB figures	4,110.093	4,104.489	5,202,649	32,741.683
Outturn figures	4,085.084	4,079.499	5,169,030	32,530.110
Difference	-25.009	-24.990	-33,619	-211.573
%	-0.608%	-0.609%	-0.646%	-0.646%

Net Calculation

	Metric Tons Vacuo	Metric Tons Air	NSV at 15°C	US Barrels at 60°F
RWB figures	4,108.022	4,102.412	5,201,610	32,735.114
Surveyor's figures	4,064.884	4,059.328	5,156,724	32,452.679
Difference	-43.138	-43.084	-44,886	-282.435
Difference, %	-1.050%	-1.050%	-0.863%	-0.863%
Outturn figures	4,083.034	4,077.453	5,167,999	32,523.630
Surveyor's figures	4,064.884	4,059.328	5,156,724	32,453
Difference	-18.150	-18.125	-11,275	-70.951
Difference, %	-0.445%	-0.445%	-0.218%	-0.218%
RWB figures	4,108.022	4,102.412	5,201,610	32,735.114
Outturn figures	4,083.034	4,077.453	5,167,999	32,523.630
Difference	-24.988	-24.959	-33,611	-211.484
Difference, %	-0.608%	-0.608%	-0.646%	-0.646%

Volume correction factors used for ASTM calculations were received by means of ASTM D 1250-2004.

Outturn figures are based on Surveyor's calculations.

TIME LOG

	Time	Date
RTCs arrived at RTC rack	11:42	24-Jun-14
Inspector arrived at RTC rack	11:45	24-Jun-14
Measurements Completed	13:15	24-Jun-14
Commenced Discharge	13:20	24-Jun-14
Completed Discharge	14:50	24-Jun-14
Rail Tank Cars Inspected	15:40	24-Jun-14
RTCs departed	16:10	24-Jun-14

Railway Bill
 By Surveyor
 Outturn

Average (pro rata) density at 15°C, kg/l	Average (pro rata) API at 60°F	Gross US barrels at 60°F from GSV at 15°C by Ch. 11.5 ex Cu M
0.7900	47.54	6.293272071
0.7885	47.88	6.293272071
0.7903	47.47	6.293272071



Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

**SUMMARY OF QUANTITIES
 DISCHARGED**
By manual measurements

GOST Calculation
 by GOST 8.587-2019

Gross Calculation

	Metric Tons Vacuo	Metric Tons Air	GSV at 15°C	US Barrels at 60°F
RWB figures	4,110.093	4,104.489	5,202,649	32,741.410
Surveyor's figures	4,068.416	4,062.855	5,148,585	32,401.676
Difference	-41.677	-41.634	-54,064	-339.734
%	-1.014%	-1.014%	-1.039%	-1.038%
Outturn figures	4,085.084	4,079.499	5,169,030	32,529.928
Surveyor's figures	4,068.416	4,062.855	5,148,585	32,401.676
Difference	-16.668	-16.644	-20,445	-128.252
%	-0.408%	-0.408%	-0.396%	-0.394%
RWB figures	4,110.093	4,104.489	5,202,649	32,741.410
Outturn figures	4,085.084	4,079.499	5,169,030	32,529.928
Difference	-25.009	-24.990	-33,619	-211.482
%	-0.608%	-0.609%	-0.646%	-0.646%

Net Calculation

	Metric Tons Vacuo	Metric Tons Air	NSV at 15°C	US Barrels at 60°F
RWB figures	4,108.022	4,102.412	5,201,610	32,734.841
Surveyor's figures	4,066.399	4,060.840	5,147,552	32,395.200
Difference	-41.623	-41.572	-54,058	-339.641
Difference, %	-1.013%	-1.013%	-1.039%	-1.038%
Outturn figures	4,083.034	4,077.453	5,167,999	32,523.448
Surveyor's figures	4,066.399	4,060.840	5,147,552	32,395.200
Difference	-16.635	-16.613	-20,447	-128.248
Difference, %	-0.407%	-0.407%	-0.396%	-0.394%
RWB figures	4,108.022	4,102.412	5,201,610	32,734.841
Outturn figures	4,083.034	4,077.453	5,167,999	32,523.448
Difference	-24.988	-24.959	-33,611	-211.393
Difference, %	-0.608%	-0.608%	-0.646%	-0.646%

Densities at 15°C and VCF (CTPL) used for calculations by GOST 8.587-2019 received by means of ASTM D 1250-2004.

Outturn figures are based on Surveyor's calculations.

TIME LOG

	Time	Date		Average (pro rata) density at 15°C, kg/l	Average (pro rata) API at 60°F	Gross US barrels at 60°F from Gross Mt vac by GOST 8.595-2010
RTCs arrived at RTC rack	11:42	24-Jun-14				
Inspector arrived at RTC rack	11:45	24-Jun-14				
Measurements Completed	13:15	24-Jun-14				
Commenced Discharge	13:20	24-Jun-14				
Completed Discharge	14:50	24-Jun-14	Railway Bill	0.7900	47.54	7.9661
Rail Tank Cars Inspected	15:40	24-Jun-14	By Surveyor	0.7902	47.49	7.9641
RTCs departed	16:10	24-Jun-14	Outturn	0.7903	47.47	7.9631



Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

RTC MEASURED DATA

Manual Measurements, (Page 1 of 2)

No	RTC No.	RWB Date	Seal No.	RTC Type	Temp. °C	R.O.B.		Water		T.O.V.	
						dip cm	Volume ltr	dip cm	Volume ltr	dip cm	Volume ltr
1	54888870	17-Jun-14		90	30.2	5.3	99	Nil		264.3	75,102
2	51618528	17-Jun-14		86	30.2	8.2	377	Nil		265.1	71,152
3	51956373	17-Jun-14		66	30.2	9.9	438	Nil		268.3	76,146
4	51945210	17-Jun-14		66	30.4	4.2	46	Nil		266.4	75,661
5	51278216	17-Jun-14		79	30.9	6.2	384	Nil		259.3	68,671
6	51728293	17-Jun-14		72	30.9	14.1	823	Nil		263.7	67,057
7	51727352	17-Jun-14		72	30.9	8.2	272	Nil		259.2	66,119
8	54887948	17-Jun-14		90	30.9	10.3	483	Nil		265.9	75,519
9	51769180	17-Jun-14		66	29.5	7.4	231	Nil		271.2	76,872
10	51772358	17-Jun-14		86	29.5	5.5	172	Nil		263.1	70,728
11	51916476	17-Jun-14		86	29.5	2.3	30	Nil		261.3	70,338
12	51567048	17-Jun-14		66	29.5	12.3	679	Nil		268.1	76,095
13	51683993	17-Jun-14		66	29.4	9.8	429	Nil		267.9	76,045
14	51749323	17-Jun-14		85	29.4	9.3	374	Nil		260.8	67,862
15	50990456	17-Jun-14		62	29.4	7.3	216	Nil		263.4	67,632
16	51714194	17-Jun-14		66	29.4	2.9	14	Nil		266.1	75,584
17	51916500	17-Jun-14		86	30.2	4.8	129	Nil		263.2	70,750
18	51910859	17-Jun-14		86	30.2	8.2	377	Nil		265.4	71,215
19	54654231	17-Jun-14		66	30.2	8.0	275	Nil		262.7	74,697
20	51753127	17-Jun-14		66	30.2	7.4	231	Nil		270.2	76,624
21	50361021	17-Jun-14		86	29.6	5.8	191	Nil		260.8	70,229
22	51396133	17-Jun-14		62	29.6	7.2	209	Nil		267.3	68,420
23	54681143	17-Jun-14		66	29.6	4.3	51	Nil		264.2	75,090
24	51916054	17-Jun-14		85	29.6	7.1	203	Nil		264.0	68,539
25	58714718	17-Jun-14		66	29.4	4.3	51	Nil		271.2	76,872
26	55977151	17-Jun-14		66	29.4	3.3	22	Nil		265.3	75,377
27	54746979	17-Jun-14		66	29.4	2.4	6	Nil		264.1	75,064
28	51683761	17-Jun-14		66	29.4	5.3	97	Nil		268.3	76,146
29	50994706	17-Jun-14		62	30.8	3.3	21	Nil		260.6	67,044
30	55976468	17-Jun-14		66	30.8	3.2	20	Nil		264.8	75,247
31	50993567	17-Jun-14		62	30.8	2.3	5	Nil		260.2	66,958
32	50490523	17-Jun-14		66	30.8	2.4	6	Nil		265.4	75,403
33	50464056	17-Jun-14		66	29.8	8.2	292	Nil		267.7	75,994
34	51653210	17-Jun-14		66	29.8	4.5	59	Nil		268.2	76,121
35	50357722	17-Jun-14		85	29.8	5.0	79	Nil		263.1	68,351
36	50360080	17-Jun-14		85	29.8	3.1	17	Nil		259.8	67,645
Subtotals this page :							7,405		0		2,608,366



Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

RTC MEASURED DATA

Manual Measurements, (Page 2 of 2)

No	RTC No.	RWB Date	Seal No.	RTC Type	Temp. °C	R.O.B.		Water		T.O.V.	
						dip cm	Volume ltr	dip cm	Volume ltr	dip cm	Volume ltr
37	51768802	17-Jun-14		66	29.6	3.2	20	Nil		274.2	77,605
38	51718245	17-Jun-14		72	29.6	10.8	490	Nil		263.5	67,016
39	51634897	17-Jun-14		86	29.6	3.0	48	Nil		260.6	70,185
40	51591295	17-Jun-14		66	29.6	4.3	51	Nil		266.6	75,712
41	51259232	17-Jun-14		66	30.3	3.2	20	Nil		261.8	74,458
42	51648558	17-Jun-14		66	30.3	6.1	143	Nil		267.0	75,815
43	51909760	17-Jun-14		85	30.3	3.4	24	Nil		265.2	68,787
44	51455848	17-Jun-14		62	30.3	8.0	265	Nil		266.4	68,240
45	51482099	17-Jun-14		66	29.7	3.3	22	Nil		264.8	75,247
46	51910966	17-Jun-14		86	29.7	2.4	33	Nil		262.3	70,556
47	51628519	17-Jun-14		72	29.7	6.4	150	Nil		262.2	66,749
48	51969087	17-Jun-14		66	29.7	4.8	72	Nil		267.5	75,943
49	51564698	17-Jun-14		66	29.5	2.0		Nil		265.1	75,325
50	51782209	17-Jun-14		86	29.5	7.8	343	Nil		262.3	70,556
51	51956548	17-Jun-14		66	29.5	6.1	143	Nil		270.2	76,624
52	51715167	17-Jun-14		66	29.5	4.1	42	Nil		270.3	76,649
53	58707423	17-Jun-14		66	29.8	9.3	385	Nil		270.9	76,798
54	50362656	17-Jun-14		86	29.8	3.4	64	Nil		254.7	68,844
55	51749398	17-Jun-14		85	29.8	2.0		Nil		257.2	67,072
56	54887328	17-Jun-14		90	29.8	3.3	22	Nil		269.8	76,513
57	50738707	17-Jun-14		62	29.6	11.7	592	Nil		260.4	67,001
58	51722502	17-Jun-14		86	29.6	2.0	22	Nil		253.3	68,514
59	51695641	17-Jun-14		86	29.6	3.2	56	Nil		262.1	70,513
60	51651693	17-Jun-14		66	29.6	5.4	102	Nil		268.0	76,070
61	51567139	17-Jun-14		66	29.3	3.9	36	Nil		268.6	76,222
62	51567543	17-Jun-14		66	29.3	5.2	91	Nil		264.3	75,116
63	51424497	17-Jun-14		62	29.3	7.2	209	Nil		265.8	68,120
64	57699555	17-Jun-14		66	29.3	5.2	91	Nil		267.3	75,892
65	75025403	17-Jun-14		66	30.9	2.0		Nil		267.7	75,994
66	75025379	17-Jun-14		66	30.9	3.2	20	Nil		266.7	75,738
67	75025387	17-Jun-14		66	30.9	4.0	38	Nil		266.2	75,609
68	75025353	17-Jun-14		66	30.9	3.9	36	Nil		263.2	74,828
69	75025460	17-Jun-14		66	30.4	4.0	38	Nil		268.2	76,121
70	75025700	17-Jun-14		66	30.4	2.2	3	Nil		267.4	75,917
71	75025528	17-Jun-14		66	30.4	0.0		Nil		266.8	75,764
72	75025684	17-Jun-14		66	30.4	3.0	15	Nil		266.3	75,635
Totals of Pages 1 and 2 :						11,088				5,246,110	



ПетроХимТест

Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

RTC DISCHARGE REPORT

Manual measurements, ASTM Calculation (Page 1 of 2)

No	RTC No.	G.O.V. ltr	RWB	Surveyor's Calculations					RWB	Difference		Outturn
			Density at 15°C*	Density at 15°C*	V.C.F. T 54A	G.S.V. ltr	Mt vacuo (Gross)	Mt vacuo (Gross)	Mt	%	Mt vacuo (Gross)	
1	54888870	75,102	0.7900	0.7902	0.98498	73,877	58.300	59.378	-1.078	-1.82%	58.417	
2	51618528	71,152	0.7900	0.7902	0.98498	69,712	54.788	55.158	-0.370	-0.67%	55.386	
3	51956373	76,146	0.7900	0.7902	0.98498	74,571	58.580	59.401	-0.821	-1.38%	59.232	
4	51945210	75,661	0.7900	0.7902	0.98478	74,464	58.805	59.440	-0.635	-1.07%	58.822	
5	51278216	68,671	0.7900	0.7902	0.98429	67,215	52.810	54.182	-1.372	-2.53%	53.382	
6	51728293	67,057	0.7900	0.7902	0.98429	65,193	50.865	52.202	-1.337	-2.56%	52.226	
7	51727352	66,119	0.7900	0.7902	0.98429	64,812	50.999	52.210	-1.211	-2.32%	51.415	
8	54887948	75,519	0.7900	0.7902	0.98429	73,857	57.980	59.390	-1.410	-2.37%	58.782	
9	51769180	76,872	0.7900	0.7902	0.98568	75,544	59.513	59.421	0.092	0.15%	59.858	
10	51772358	70,728	0.7900	0.7902	0.98568	69,546	54.820	55.166	-0.346	-0.63%	55.094	
11	51916476	70,338	0.7900	0.7902	0.98568	69,302	54.739	55.161	-0.422	-0.77%	54.755	
12	51567048	76,095	0.7900	0.7902	0.98568	74,337	58.205	59.427	-1.222	-2.06%	59.272	
13	51683993	76,045	0.7900	0.7902	0.98578	74,540	58.562	59.405	-0.843	-1.42%	59.278	
14	51749323	67,862	0.7900	0.7902	0.98578	66,528	52.275	53.329	-1.054	-1.98%	52.915	
15	50990456	67,632	0.7900	0.7902	0.98578	66,457	52.344	52.710	-0.366	-0.69%	52.638	
16	51714194	75,584	0.7900	0.7902	0.98578	74,496	58.856	59.422	-0.566	-0.95%	58.879	
17	51916500	70,750	0.7900	0.7902	0.98498	69,560	54.864	55.193	-0.329	-0.60%	55.056	
18	51910859	71,215	0.7900	0.7902	0.98498	69,773	54.837	55.191	-0.354	-0.64%	55.386	
19	54654231	74,697	0.7900	0.7902	0.98498	73,304	57.708	59.441	-1.733	-2.92%	58.224	
20	51753127	76,624	0.7900	0.7902	0.98498	75,246	59.277	59.457	-0.180	-0.30%	59.624	
21	50361021	70,229	0.7900	0.7902	0.98558	69,028	54.395	55.183	-0.788	-1.43%	54.750	
22	51396133	68,420	0.7900	0.7902	0.98558	67,227	52.958	52.738	0.220	0.42%	53.259	
23	54681143	75,090	0.7900	0.7902	0.98558	73,958	58.402	59.420	-1.018	-1.71%	58.462	
24	51916054	68,539	0.7900	0.7902	0.98558	67,350	53.059	53.444	-0.385	-0.72%	53.399	
25	58714718	76,872	0.7900	0.7902	0.98578	75,729	59.801	59.466	0.335	0.56%	59.865	
26	55977151	75,377	0.7900	0.7902	0.98578	74,283	58.681	59.509	-0.828	-1.39%	58.677	
27	54746979	75,064	0.7900	0.7902	0.98578	73,991	58.463	59.465	-1.002	-1.69%	58.474	
28	51683761	76,146	0.7900	0.7902	0.98578	74,968	59.163	59.456	-0.293	-0.49%	59.278	
29	50994706	67,044	0.7900	0.7902	0.98439	65,977	52.118	52.759	-0.641	-1.21%	52.240	
30	55976468	75,247	0.7900	0.7902	0.98439	74,053	58.501	59.475	-0.974	-1.64%	58.596	
31	50993567	66,958	0.7900	0.7902	0.98439	65,908	52.077	52.747	-0.670	-1.27%	52.073	
32	50490523	75,403	0.7900	0.7902	0.98439	74,220	58.644	59.544	-0.900	-1.51%	58.596	
33	50464056	75,994	0.7900	0.7902	0.98538	74,595	58.715	59.461	-0.746	-1.25%	59.255	
34	51653210	76,121	0.7900	0.7902	0.98538	74,950	59.179	59.476	-0.297	-0.50%	59.255	
35	50357722	68,351	0.7900	0.7902	0.98538	67,274	53.098	53.373	-0.275	-0.52%	53.226	
36	50360080	67,645	0.7900	0.7902	0.98538	66,639	52.645	53.371	-0.726	-1.36%	52.719	
Subtotals this page :		2,608,366				2,562,484	2,019.026	2,043.571	-24.545	-1.20%	2,030.765	

Densities at 15°C and VCF (CTPL) used for ASTM calculations were received by means of ASTM D 1250-2004.
 Densities at 15°C and VCF (CTPL) used for ASTM calculations were received by means of ASTM D 1250-2004
 For and on behalf of "Petrochemtest" Limited Liability Company: Dmitriy Zinov



Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

RTC DISCHARGE REPORT

Manual measurements, ASTM Calculation (Page 2 of 2)

No	RTC No.	G.O.V. ltr	RWB	Surveyor's Calculations				RWB	Difference		Outturn
			Density at 15°C*	Density at 15°C*	V.C.F. T 54A	G.S.V. ltr	Mt vacuo (Gross)	Mt vacuo (Gross)	Mt	%	Mt vacuo (Gross)
37	51768802	77,605	0.7900	0.7902	0.98558	76,467	60.409	59.560	0.849	1.43%	60.425
38	51718245	67,016	0.7900	0.7902	0.98558	65,567	51.424	52.291	-0.867	-1.66%	52.292
39	51634897	70,185	0.7900	0.7902	0.98558	69,125	54.584	55.243	-0.659	-1.19%	54.750
40	51591295	75,712	0.7900	0.7902	0.98558	74,571	58.886	59.540	-0.654	-1.10%	59.067
41	51259232	74,458	0.7900	0.7902	0.98488	73,313	57.916	59.485	-1.569	-2.64%	58.012
42	51648558	75,815	0.7900	0.7902	0.98488	74,528	58.779	59.544	-0.765	-1.28%	59.027
43	51909760	68,787	0.7900	0.7902	0.98488	67,723	53.496	53.387	0.109	0.20%	53.523
44	51455848	68,240	0.7900	0.7902	0.98488	66,947	52.692	52.792	-0.100	-0.19%	53.067
45	51482099	75,247	0.7900	0.7902	0.98548	74,133	58.563	59.492	-0.929	-1.56%	58.660
46	51910966	70,556	0.7900	0.7902	0.98548	69,499	54.892	55.234	-0.342	-0.62%	54.914
47	51628519	66,749	0.7900	0.7902	0.98548	65,632	51.744	52.267	-0.523	-1.00%	51.968
48	51969087	75,943	0.7900	0.7902	0.98548	74,769	59.026	59.479	-0.453	-0.76%	59.260
49	51564698	75,325	0.7900	0.7902	0.98568	74,246	58.669	59.488	-0.819	-1.38%	58.672
50	51782209	70,556	0.7900	0.7902	0.98568	69,207	54.416	55.198	-0.782	-1.42%	54.925
51	51956548	76,624	0.7900	0.7902	0.98568	75,386	59.457	59.453	0.004	0.01%	59.665
52	51715167	76,649	0.7900	0.7902	0.98568	75,509	59.634	59.398	0.236	0.40%	59.665
53	58707423	76,798	0.7900	0.7902	0.98538	75,296	59.195	59.400	-0.205	-0.35%	59.841
54	50362656	68,844	0.7900	0.7902	0.98538	67,774	53.505	55.016	-1.511	-2.75%	53.681
55	51749398	67,072	0.7900	0.7902	0.98538	66,092	52.226	53.169	-0.943	-1.77%	52.212
56	54887328	76,513	0.7900	0.7902	0.98538	75,372	59.541	59.395	0.146	0.25%	59.639
57	50738707	67,001	0.7900	0.7902	0.98558	65,452	51.253	52.596	-1.343	-2.55%	52.133
58	51722502	68,514	0.7900	0.7902	0.98558	67,504	53.324	55.056	-1.732	-3.15%	53.324
59	51695641	70,513	0.7900	0.7902	0.98558	69,440	54.827	55.016	-0.189	-0.34%	54.920
60	51651693	76,070	0.7900	0.7902	0.98558	74,872	59.083	59.406	-0.323	-0.54%	59.267
61	51567139	76,222	0.7900	0.7902	0.98587	75,110	59.324	59.332	-0.008	-0.01%	59.481
62	51567543	75,116	0.7900	0.7902	0.98587	73,965	58.375	59.359	-0.984	-1.66%	58.480
63	51424497	68,120	0.7900	0.7902	0.98587	66,951	52.740	52.662	0.078	0.15%	53.119
64	57699555	75,892	0.7900	0.7902	0.98587	74,729	58.979	59.340	-0.361	-0.61%	59.085
65	75025403	75,994	0.7900	0.7902	0.98429	74,800	59.107	59.335	-0.228	-0.38%	59.191
66	75025379	75,738	0.7900	0.7902	0.98429	74,529	58.877	59.344	-0.467	-0.79%	58.992
67	75025387	75,609	0.7900	0.7902	0.98429	74,384	58.748	59.388	-0.640	-1.08%	58.792
68	75025353	74,828	0.7900	0.7902	0.98429	73,618	58.145	59.352	-1.207	-2.03%	58.184
69	75025460	76,121	0.7900	0.7902	0.98478	74,925	59.176	59.344	-0.168	-0.28%	59.220
70	75025700	75,917	0.7900	0.7902	0.98478	74,759	59.072	59.396	-0.324	-0.55%	59.022
71	75025528	75,764	0.7900	0.7902	0.98478	74,610	58.957	59.359	-0.402	-0.68%	59.022
72	75025684	75,635	0.7900	0.7902	0.98478	74,469	58.834	59.406	-0.572	-0.96%	58.822
Totals of pages 1 & 2:		5,246,110				5,157,757	4,066.901	4,108.022	-41.121	-1.00%	4,085.084

Densities at 15°C and VCF (CTPL) used for ASTM calculations were received by means of ASTM D 1250-2004.
 Densities at 15°C and VCF (CTPL) used for ASTM calculations were received by means of ASTM D 1250-2004.

For and on behalf of "Petrochemtest" Limited Liability Company: Dmitriy Zinov



Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

RTC DISCHARGE REPORT

Manual measurements, GOST Calculation (Page 1 of 2)
 by GOST 8.587-2019

No	RTC No.	G.O.V. ltr	Surveyor's Calculations					RWB		Difference		Outturn Mt vacuo (Gross)
			Density at 15°C	V.C.F. T 54A	G.S.V., ltr Discharged	G.S.V., ltr x Shell Correction	Mt vacuo (Gross)	Mt vacuo (Gross)	Mt	%		
1	54888870	75,102	0.7902	0.98498	73,778	73,806	58.322	59.378	-1.056	-1.78%	58.417	
2	51618528	71,152	0.7902	0.98498	69,335	69,361	54.809	55.158	-0.349	-0.63%	55.386	
3	51956373	76,146	0.7902	0.98498	74,133	74,161	58.602	59.401	-0.799	-1.35%	59.232	
4	51945210	75,661	0.7902	0.98478	74,418	74,447	58.828	59.440	-0.612	-1.03%	58.822	
5	51278216	68,671	0.7902	0.98429	66,831	66,859	52.832	54.182	-1.350	-2.49%	53.382	
6	51728293	67,057	0.7902	0.98429	64,370	64,396	50.886	52.202	-1.316	-2.52%	52.226	
7	51727352	66,119	0.7902	0.98429	64,540	64,566	51.020	52.210	-1.190	-2.28%	51.415	
8	54887948	75,519	0.7902	0.98429	73,374	73,404	58.004	59.390	-1.386	-2.33%	58.782	
9	51769180	76,872	0.7902	0.98568	75,313	75,340	59.534	59.421	0.113	0.19%	59.858	
10	51772358	70,728	0.7902	0.98568	69,374	69,399	54.839	55.166	-0.327	-0.59%	55.094	
11	51916476	70,338	0.7902	0.98568	69,272	69,297	54.758	55.161	-0.403	-0.73%	54.755	
12	51567048	76,095	0.7902	0.98568	73,658	73,685	58.226	59.427	-1.201	-2.02%	59.272	
13	51683993	76,045	0.7902	0.98578	74,111	74,137	58.583	59.405	-0.822	-1.38%	59.278	
14	51749323	67,862	0.7902	0.98578	66,154	66,177	52.293	53.329	-1.036	-1.94%	52.915	
15	50990456	67,632	0.7902	0.98578	66,241	66,264	52.362	52.710	-0.348	-0.66%	52.638	
16	51714194	75,584	0.7902	0.98578	74,483	74,509	58.877	59.422	-0.545	-0.92%	58.879	
17	51916500	70,750	0.7902	0.98498	69,431	69,457	54.885	55.193	-0.308	-0.56%	55.056	
18	51910859	71,215	0.7902	0.98498	69,396	69,422	54.857	55.191	-0.334	-0.61%	55.386	
19	54654231	74,697	0.7902	0.98498	73,029	73,057	57.730	59.441	-1.711	-2.88%	58.224	
20	51753127	76,624	0.7902	0.98498	75,015	75,044	59.300	59.457	-0.157	-0.26%	59.624	
21	50361021	70,229	0.7902	0.98558	68,837	68,862	54.415	55.183	-0.768	-1.39%	54.750	
22	51396133	68,420	0.7902	0.98558	67,018	67,042	52.977	52.738	0.239	0.45%	53.259	
23	54681143	75,090	0.7902	0.98558	73,907	73,934	58.423	59.420	-0.997	-1.68%	58.462	
24	51916054	68,539	0.7902	0.98558	67,147	67,171	53.079	53.444	-0.365	-0.68%	53.399	
25	58714718	76,872	0.7902	0.98578	75,678	75,705	59.822	59.466	0.356	0.60%	59.865	
26	55977151	75,377	0.7902	0.98578	74,261	74,287	58.702	59.509	-0.807	-1.36%	58.677	
27	54746979	75,064	0.7902	0.98578	73,985	74,011	58.483	59.465	-0.982	-1.65%	58.474	
28	51683761	76,146	0.7902	0.98578	74,871	74,898	59.184	59.456	-0.272	-0.46%	59.278	
29	50994706	67,044	0.7902	0.98439	65,956	65,983	52.140	52.759	-0.619	-1.17%	52.240	
30	55976468	75,247	0.7902	0.98439	74,033	74,063	58.525	59.475	-0.950	-1.60%	58.596	
31	50993567	66,958	0.7902	0.98439	65,904	65,930	52.098	52.747	-0.649	-1.23%	52.073	
32	50490523	75,403	0.7902	0.98439	74,214	74,244	58.668	59.544	-0.876	-1.47%	58.596	
33	50464056	75,994	0.7902	0.98538	74,303	74,331	58.736	59.461	-0.725	-1.22%	59.255	
34	51653210	76,121	0.7902	0.98538	74,891	74,919	59.201	59.476	-0.275	-0.46%	59.255	
35	50357722	68,351	0.7902	0.98538	67,195	67,220	53.117	53.373	-0.256	-0.48%	53.226	
36	50360080	67,645	0.7902	0.98538	66,622	66,646	52.664	53.371	-0.707	-1.32%	52.719	
Subtotals this page :		2,608,366			2,555,079		2,019.781	2,043.571	-23.790	-1.16%	2,030.765	

Densities at 15°C and VCF (CTPL) used for ASTM calculations were received by means of ASTM D 1250-2004.
 Densities at 15°C and VCF (CTPL) used for calculations by GOST 8.587-2019 received by means of ASTM D 1250-2004.
 Measuring rod made of: Russian steel. Coefficient of thermal expansion of Russian steel is 0.0000125.
 RTC shell made of: Russian steel. Coefficient of thermal expansion of Russian steel is 0.0000125.

For and on behalf of "Petrochemtest" Limited Liability Company: Dmitriy Zinov



ПетроХимТест

Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

RTC DISCHARGE REPORT

Manual measurements, GOST Calculation (Page 2 of 2)
 by GOST 8.587-2019

No	RTC No.	G.O.V. ltr	Surveyor's Calculations					RWB		Difference		Outturn Mt vacuo (Gross)
			Density at 15°C	V.C.F. T 54A	G.S.V., ltr	G.S.V., ltr x Shell Correction	Mt vacuo (Gross)	Mt vacuo (Gross)	Mt	%		
37	51768802	77,605	0.7902	0.98558	76,447	76,475	60.431	59.560	0.871	1.46%	60.425	
38	51718245	67,016	0.7902	0.98558	65,077	65,100	51.442	52.291	-0.849	-1.62%	52.292	
39	51634897	70,185	0.7902	0.98558	69,077	69,101	54.604	55.243	-0.639	-1.16%	54.750	
40	51591295	75,712	0.7902	0.98558	74,520	74,547	58.907	59.540	-0.633	-1.06%	59.067	
41	51259232	74,458	0.7902	0.98488	73,293	73,322	57.939	59.485	-1.546	-2.60%	58.012	
42	51648558	75,815	0.7902	0.98488	74,386	74,414	58.802	59.544	-0.742	-1.25%	59.027	
43	51909760	68,787	0.7902	0.98488	67,699	67,725	53.516	53.387	0.129	0.24%	53.523	
44	51455848	68,240	0.7902	0.98488	66,682	66,708	52.713	52.792	-0.079	-0.15%	53.067	
45	51482099	75,247	0.7902	0.98548	74,111	74,138	58.584	59.492	-0.908	-1.53%	58.660	
46	51910966	70,556	0.7902	0.98548	69,467	69,492	54.913	55.234	-0.321	-0.58%	54.914	
47	51628519	66,749	0.7902	0.98548	65,482	65,505	51.762	52.267	-0.505	-0.97%	51.968	
48	51969087	75,943	0.7902	0.98548	74,697	74,725	59.048	59.479	-0.431	-0.72%	59.260	
49	51564698	75,325	0.7902	0.98568	74,246	74,272	58.690	59.488	-0.798	-1.34%	58.672	
50	51782209	70,556	0.7902	0.98568	68,864	68,889	54.436	55.198	-0.762	-1.38%	54.925	
51	51956548	76,624	0.7902	0.98568	75,244	75,270	59.478	59.453	0.025	0.04%	59.665	
52	51715167	76,649	0.7902	0.98568	75,467	75,494	59.655	59.398	0.257	0.43%	59.665	
53	58707423	76,798	0.7902	0.98538	74,911	74,939	59.217	59.400	-0.183	-0.31%	59.841	
54	50362656	68,844	0.7902	0.98538	67,710	67,735	53.524	55.016	-1.492	-2.71%	53.681	
55	51749398	67,072	0.7902	0.98538	66,092	66,116	52.245	53.169	-0.924	-1.74%	52.212	
56	54887328	76,513	0.7902	0.98538	75,350	75,377	59.563	59.395	0.168	0.28%	59.639	
57	50738707	67,001	0.7902	0.98558	64,861	64,884	51.271	52.596	-1.325	-2.52%	52.133	
58	51722502	68,514	0.7902	0.98558	67,482	67,506	53.343	55.056	-1.713	-3.11%	53.324	
59	51695641	70,513	0.7902	0.98558	69,384	69,409	54.847	55.016	-0.169	-0.31%	54.920	
60	51651693	76,070	0.7902	0.98558	74,770	74,797	59.105	59.406	-0.301	-0.51%	59.267	
61	51567139	76,222	0.7902	0.98587	75,074	75,100	59.344	59.332	0.012	0.02%	59.481	
62	51567543	75,116	0.7902	0.98587	73,874	73,900	58.396	59.359	-0.963	-1.62%	58.480	
63	51424497	68,120	0.7902	0.98587	66,742	66,765	52.758	52.662	0.096	0.18%	53.119	
64	57699555	75,892	0.7902	0.98587	74,638	74,664	58.999	59.340	-0.341	-0.57%	59.085	
65	75025403	75,994	0.7902	0.98429	74,800	74,831	59.131	59.335	-0.204	-0.34%	59.191	
66	75025379	75,738	0.7902	0.98429	74,509	74,540	58.902	59.344	-0.442	-0.74%	58.992	
67	75025387	75,609	0.7902	0.98429	74,346	74,376	58.772	59.388	-0.616	-1.04%	58.792	
68	75025353	74,828	0.7902	0.98429	73,582	73,612	58.168	59.352	-1.184	-1.99%	58.184	
69	75025460	76,121	0.7902	0.98478	74,887	74,916	59.199	59.344	-0.145	-0.24%	59.220	
70	75025700	75,917	0.7902	0.98478	74,756	74,785	59.095	59.396	-0.301	-0.51%	59.022	
71	75025528	75,764	0.7902	0.98478	74,610	74,639	58.980	59.359	-0.379	-0.64%	59.022	
72	75025684	75,635	0.7902	0.98478	74,454	74,483	58.856	59.406	-0.550	-0.93%	58.822	
Totals of pages 1 & 2:		5,246,110			5,157,757		4,066.901	4,108.022	-41.121	-1.00%	4,085.084	

Densities at 15°C and VCF (CTPL) used for ASTM calculations were received by means of ASTM D 1250-2004.
 Densities at 15°C and VCF (CTPL) used for calculations by GOST 8.587-2019 received by means of ASTM D 1250-2004.
 Measuring rod made of: Russian steel. Coefficient of thermal expansion of Russian steel is 0.0000125.
 RTC shell made of: Russian steel. Coefficient of thermal expansion of Russian steel is 0.0000125.

For and on behalf of "Petrochemtest" Limited Liability Company: Dmitriy Zinov



Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

RTC CALCULATED DATA (US Barrels Comparison)

Page 1 of 2

No	RTC No.	Surveyor's Calculations		Surveyor's Calculations		RWB Barrels		Difference	
		ASTM Calculation		GOST Calculation		GOST Calculation		(GOST Calculation)	
		Gross US Barrels	Net US Barrels	Gross US Barrels	Net US Barrels	Gross US Barrels	Net US Barrels	Net US Barrels	% to RWB
1	54888870	464.928	464.835	464.488	464.395	473.011	472.916	-8.521	-1.80%
2	51618528	438.717	438.629	436.510	436.423	439.394	439.306	-2.883	-0.66%
3	51956373	469.296	469.202	466.718	466.625	473.194	473.099	-6.474	-1.37%
4	51945210	468.622	468.528	468.518	468.424	473.505	473.410	-4.986	-1.05%
5	51278216	423.002	422.917	420.765	420.681	431.619	431.532	-10.851	-2.51%
6	51728293	410.277	410.195	405.266	405.185	415.846	415.762	-10.577	-2.54%
7	51727352	407.880	407.798	406.333	406.252	415.910	415.826	-9.574	-2.30%
8	54887948	464.802	464.709	461.955	461.863	473.107	473.012	-11.149	-2.36%
9	51769180	475.419	475.324	474.141	474.046	473.354	473.259	0.787	0.17%
10	51772358	437.672	437.584	436.749	436.662	439.458	439.370	-2.708	-0.62%
11	51916476	436.136	436.049	436.104	436.017	439.418	439.330	-3.313	-0.75%
12	51567048	467.823	467.729	463.724	463.631	473.401	473.306	-9.675	-2.04%
13	51683993	469.101	469.007	466.567	466.474	473.226	473.131	-6.657	-1.41%
14	51749323	418.679	418.595	416.472	416.389	424.824	424.739	-8.350	-1.97%
15	50990456	418.232	418.148	417.021	416.938	419.893	419.809	-2.871	-0.68%
16	51714194	468.824	468.730	468.908	468.814	473.362	473.267	-4.453	-0.94%
17	51916500	437.760	437.672	437.115	437.028	439.673	439.585	-2.557	-0.58%
18	51910859	439.100	439.012	436.892	436.805	439.657	439.569	-2.764	-0.63%
19	54654231	461.322	461.230	459.773	459.681	473.513	473.418	-13.737	-2.90%
20	51753127	473.544	473.449	472.277	472.183	473.640	473.545	-1.362	-0.29%
21	50361021	434.412	434.325	433.372	433.285	439.593	439.505	-6.220	-1.42%
22	51396133	423.078	422.993	421.919	421.835	420.116	420.032	1.803	0.43%
23	54681143	465.438	465.345	465.292	465.199	473.346	473.251	-8.052	-1.70%
24	51916054	423.852	423.767	422.732	422.647	425.740	425.654	-3.007	-0.71%
25	58714718	476.583	476.488	476.434	476.339	473.712	473.617	2.722	0.57%
26	55977151	467.483	467.390	467.514	467.420	474.055	473.960	-6.540	-1.38%
27	54746979	465.645	465.552	465.770	465.677	473.704	473.609	-7.932	-1.67%
28	51683761	471.794	471.700	471.353	471.259	473.632	473.537	-2.278	-0.48%
29	50994706	415.211	415.128	415.253	415.170	420.283	420.199	-5.029	-1.20%
30	55976468	466.036	465.943	466.105	466.012	473.784	473.689	-7.677	-1.62%
31	50993567	414.777	414.694	414.919	414.836	420.188	420.104	-5.268	-1.25%
32	50490523	467.087	466.994	467.244	467.151	474.333	474.238	-7.087	-1.49%
33	50464056	469.447	469.353	467.785	467.691	473.672	473.577	-5.886	-1.24%
34	51653210	471.681	471.587	471.489	471.395	473.792	473.697	-2.302	-0.49%
35	50357722	423.374	423.289	423.034	422.949	425.175	425.090	-2.141	-0.50%
36	50360080	419.377	419.293	419.427	419.343	425.159	425.074	-5.731	-1.35%
Subtotals this		16,126.411	16,123.183	16,085.938	16,082.724	16,279.289	16,276.024	-193.300	-1.19%

GOST Calculation: Gross US barrels at 60°F were received from Gross Mt vac multiplied by the factor from GOST 8.595-2010.

ASTM Calculation: Gross US barrels at 60°F were received from GSV at 15°C multiplied by the factor from API MPMS Chapter 11.5.3.

For and on behalf of "Petrochemtest" Limited Liability Company: Dmitriy Zinov



Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

RTC CALCULATED DATA (US Barrels Comparison)

Page 2 of 2

No	RTC No.	Surveyor's Calculations		Surveyor's Calculations		RWB Barrels		Difference	
		ASTM Calculation		GOST Calculation		GOST Calculation		(GOST Calculation)	
		Gross US Barrels	Net US Barrels	Gross US Barrels	Net US Barrels	Gross US Barrels	Net US Barrels	Net US Barrels	% to RWB
37	51768802	481.228	481.132	481.285	481.189	474.461	474.366	6.823	1.44%
38	51718245	412.631	412.548	409.694	409.612	416.555	416.471	-6.859	-1.65%
39	51634897	435.022	434.935	434.877	434.790	440.071	439.983	-5.193	-1.18%
40	51591295	469.296	469.202	469.147	469.053	474.302	474.207	-5.154	-1.09%
41	51259232	461.379	461.287	461.438	461.346	473.863	473.768	-12.422	-2.62%
42	51648558	469.025	468.931	468.311	468.217	474.333	474.238	-6.021	-1.27%
43	51909760	426.199	426.114	426.212	426.127	425.286	425.201	0.926	0.22%
44	51455848	421.316	421.232	419.817	419.733	420.546	420.461	-0.728	-0.17%
45	51482099	466.539	466.446	466.575	466.482	473.919	473.824	-7.342	-1.55%
46	51910966	437.376	437.289	437.338	437.251	440.000	439.912	-2.661	-0.60%
47	51628519	413.040	412.957	412.243	412.161	416.364	416.280	-4.119	-0.99%
48	51969087	470.542	470.448	470.270	470.176	473.816	473.721	-3.545	-0.75%
49	51564698	467.250	467.157	467.419	467.326	473.887	473.792	-6.466	-1.36%
50	51782209	435.538	435.451	433.539	433.452	439.713	439.625	-6.173	-1.40%
51	51956548	474.425	474.330	473.695	473.600	473.609	473.514	0.086	0.02%
52	51715167	475.199	475.104	475.104	475.009	473.170	473.075	1.934	0.41%
53	58707423	473.858	473.763	471.616	471.522	473.186	473.091	-1.569	-0.33%
54	50362656	426.520	426.435	426.276	426.191	438.263	438.175	-11.984	-2.73%
55	51749398	415.935	415.852	416.090	416.007	423.550	423.465	-7.458	-1.76%
56	54887328	474.337	474.242	474.372	474.277	473.147	473.052	1.225	0.26%
57	50738707	411.907	411.825	408.332	408.250	418.985	418.901	-10.651	-2.54%
58	51722502	424.821	424.736	424.834	424.749	438.582	438.494	-13.745	-3.13%
59	51695641	437.005	436.918	436.812	436.725	438.263	438.175	-1.450	-0.33%
60	51651693	471.190	471.096	470.724	470.630	473.234	473.139	-2.509	-0.53%
61	51567139	472.688	472.593	472.627	472.532	472.645	472.550	-0.018	0.00%
62	51567543	465.482	465.389	465.077	464.984	472.860	472.765	-7.781	-1.65%
63	51424497	421.341	421.257	420.175	420.091	419.511	419.427	0.664	0.16%
64	57699555	470.290	470.196	469.880	469.786	472.708	472.613	-2.827	-0.60%
65	75025403	470.737	470.643	470.931	470.837	472.669	472.574	-1.737	-0.37%
66	75025379	469.031	468.937	469.107	469.013	472.740	472.645	-3.632	-0.77%
67	75025387	468.119	468.025	468.072	467.978	473.091	472.996	-5.018	-1.06%
68	75025353	463.298	463.205	463.262	463.169	472.804	472.709	-9.540	-2.02%
69	75025460	471.523	471.429	471.473	471.379	472.740	472.645	-1.266	-0.27%
70	75025700	470.479	470.385	470.644	470.550	473.154	473.059	-2.509	-0.53%
71	75025528	469.541	469.447	469.729	469.635	472.860	472.765	-3.130	-0.66%
72	75025684	468.654	468.560	468.741	468.647	473.234	473.139	-4.492	-0.95%
Totals, Pages		32,459.172	32,459.172			32,741.410	32,734.841	-32,734.841	#####

GOST Calculation: Gross US barrels at 60°F were received from Gross Mt vac multiplied by the factor from GOST 8.595-2010.

ASTM Calculation: Gross US barrels at 60°F were received from GSV at 15°C multiplied by the factor from API MPMS Chapter 11.5.3.



CERTIFICATE OF QUALITY

Official Loading Certificate

Report No. RU-0009-10-2014
Date 24-Jun-14
Operation RTC discharge (shipment 1)
Location St. Petersburg Oil Terminal
Product Crude Oil
Discharge date 25-Jun-14

SAMPLE OF: Crude Oil
SAMPLE DRAWN: by "Petrochemtest" Limited Liability Company
SAMPLE DESCRIPTION: Multiple Rail Tank Composite Sample
(running) from each 4th Rail Tank Car

RECEIVED ON: 24-Jun-14
TESTING PERFORMED BY: The analysis was carried out in the third-party laboratory.
ON THE:

Test		Method	Specification	Result
Density at 15°C	kg/l	ASTM D5002		0.79
Water by Karl Fischer	mass%	ASTM D4928		0.0004
Sediments	mass%	ASTM D4807		0.05
Sulphur	mass%	ASTM D4294		0.54

For and on behalf of "Petrochemtest" Limited Liability Company: Dmitriy Zinov



CERTIFICATE OF QUALITY

Report No. RU-0009-10-2014 "Petrochemtest" Limited Liability Company Certificate
Date 24-Jun-14
Operation RTC discharge (shipment 1)
Location St. Petersburg Oil Terminal
Product Crude Oil
Discharge date 25-Jun-14

SAMPLE OF: Crude Oil
SAMPLE DRAWN: by "Petrochemtest" Limited Liability Company
SAMPLE DESCRIPTION: Multiple Rail Tank Composite Sample
(running) from each 4th Rail Tank Car

RECEIVED ON: 24-Jun-14
TESTING PERFORMED BY: The analysis was carried out in the third-party laboratory.
ON THE:

Test		Method	Specification	Result
Density at 15°C	kg/l	ASTM D5002		0.7902
Water by Karl Fischer	mass%	ASTM D4928		0.0008
Sediments	mass%	ASTM D4807		0.049
Sulphur	mass%	ASTM D4294		0.55

For and on behalf of "Petrochemtest" Limited Liability Company: Dmitriy Zinov



CERTIFICATE OF QUALITY

Outturn Certificate

Report No. RU-0009-10-2014
Date 24-Jun-14
Operation RTC discharge (shipment 1)
Location St. Petersburg Oil Terminal
Product Crude Oil
Discharge date 25-Jun-14

SAMPLE OF: Crude Oil
SAMPLE DRAWN: by "Petrochemtest" Limited Liability Company
SAMPLE DESCRIPTION: Multiple Rail Tank Composite Sample
(running) from each 4th Rail Tank Car
RECEIVED ON: 24-Jun-14
TESTING PERFORMED BY: The analysis was carried out in the third-party laboratory.
ON THE:

Test		Method	Specification	Result
Density at 15°C	kg/l	ASTM D5002		0.7903
Water by Karl Fischer	mass%	ASTM D4928		0.0001
Sediments	mass%	ASTM D4807		0.05
Sulphur	mass%	ASTM D4294		0.54

For and on behalf of "Petrochemtest" Limited Liability Company: Dmitriy Zinov



Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

CERTIFICATE OF DISCHARGE

Page 1 of 2

All measurements are in Vacuo

No	Customs Declaration No.	RWB Date	RWB No.	RTC No.	RWB Gross Metric Tons	RWB Net Metric Tons	RWB Gross US Barrels	RWB Net US Barrels	API Gravity	Vapour Pressure, kPa
1		17-Jun-14	592365	54888870	59.378	59.348	473.011	472.916	47.54	
2		17-Jun-14	592365	51618528	55.158	55.130	439.394	439.306	47.54	
3		17-Jun-14	592365	51956373	59.401	59.371	473.194	473.099	47.54	
4		17-Jun-14	592365	51945210	59.440	59.410	473.505	473.410	47.54	
5		17-Jun-14	592365	51278216	54.182	54.155	431.619	431.532	47.54	
6		17-Jun-14	592365	51728293	52.202	52.176	415.846	415.762	47.54	
7		17-Jun-14	592365	51727352	52.210	52.184	415.910	415.826	47.54	
8		17-Jun-14	592365	54887948	59.390	59.360	473.107	473.012	47.54	
9		17-Jun-14	592365	51769180	59.421	59.391	473.354	473.259	47.54	
10		17-Jun-14	592365	51772358	55.166	55.138	439.458	439.370	47.54	
11		17-Jun-14	592365	51916476	55.161	55.133	439.418	439.330	47.54	
12		17-Jun-14	592365	51567048	59.427	59.397	473.401	473.306	47.54	
13		17-Jun-14	592365	51683993	59.405	59.375	473.226	473.131	47.54	
14		17-Jun-14	592365	51749323	53.329	53.302	424.824	424.739	47.54	
15		17-Jun-14	592365	50990456	52.710	52.684	419.893	419.809	47.54	
16		17-Jun-14	592365	51714194	59.422	59.392	473.362	473.267	47.54	
17		17-Jun-14	592365	51916500	55.193	55.165	439.673	439.585	47.54	
18		17-Jun-14	592365	51910859	55.191	55.163	439.657	439.569	47.54	
19		17-Jun-14	592365	54654231	59.441	59.411	473.513	473.418	47.54	
20		17-Jun-14	592365	51753127	59.457	59.427	473.640	473.545	47.54	
21		17-Jun-14	592365	50361021	55.183	55.155	439.593	439.505	47.54	
22		17-Jun-14	592365	51396133	52.738	52.712	420.116	420.032	47.54	
23		17-Jun-14	592365	54681143	59.420	59.390	473.346	473.251	47.54	
24		17-Jun-14	592365	51916054	53.444	53.417	425.740	425.654	47.54	
25		17-Jun-14	592365	58714718	59.466	59.436	473.712	473.617	47.54	
26		17-Jun-14	592365	55977151	59.509	59.479	474.055	473.960	47.54	
27		17-Jun-14	592365	54746979	59.465	59.435	473.704	473.609	47.54	
28		17-Jun-14	592365	51683761	59.456	59.426	473.632	473.537	47.54	
29		17-Jun-14	592365	50994706	52.759	52.733	420.283	420.199	47.54	
30		17-Jun-14	592365	55976468	59.475	59.445	473.784	473.689	47.54	
31		17-Jun-14	592365	50993567	52.747	52.721	420.188	420.104	47.54	
32		17-Jun-14	592365	50490523	59.544	59.514	474.333	474.238	47.54	
33		17-Jun-14	592365	50464056	59.461	59.431	473.672	473.577	47.54	
34		17-Jun-14	592365	51653210	59.476	59.446	473.792	473.697	47.54	
35		17-Jun-14	592365	50357722	53.373	53.346	425.175	425.090	47.54	
36		17-Jun-14	592365	50360080	53.371	53.344	425.159	425.074	47.54	
Subtotals this page :					2,043.571	2,042.542	16,279.289	16,276.024		

Remarks:

Gross US barrels at 60°F were received from Gross Mt vac multiplied by the factor from GOST 8.595-2010.

API Gravity converted from Railway Bill Density at 15°C by API MPMS Chapter 11.5.3.

Railway Bill Density at 15°C converted from Railway Bill Density at 20°C by ASTM T 53A.

For and on behalf of "Petrochemtest" Limited Liability Company: Dmitry Zinov



Report No. RU-0009-10-2014
 Date 24-Jun-14
 Operation RTC discharge (shipment 1)
 Location St. Petersburg Oil Terminal
 Product Crude Oil
 Discharge date 25-Jun-14

CERTIFICATE OF DISCHARGE

Page 2 of 2

All measurements are in Vacuo

No	Customs Declaration No.	RWB Date	RWB No.	RTC No.	RWB Gross Metric Tons	RWB Net Metric Tons	RWB Gross US Barrels	RWB Net US Barrels	API Gravity	Vapour Pressure, kPa
37		17-Jun-14	592365	51768802	59.560	59.530	474.461	474.366	47.54	
38		17-Jun-14	592365	51718245	52.291	52.265	416.555	416.471	47.54	
39		17-Jun-14	592365	51634897	55.243	55.215	440.071	439.983	47.54	
40		17-Jun-14	592365	51591295	59.540	59.510	474.302	474.207	47.54	
41		17-Jun-14	592365	51259232	59.485	59.455	473.863	473.768	47.54	
42		17-Jun-14	592365	51648558	59.544	59.514	474.333	474.238	47.54	
43		17-Jun-14	592365	51909760	53.387	53.360	425.286	425.201	47.54	
44		17-Jun-14	592365	51455848	52.792	52.766	420.546	420.461	47.54	
45		17-Jun-14	592365	51482099	59.492	59.462	473.919	473.824	47.54	
46		17-Jun-14	592365	51910966	55.234	55.206	440.000	439.912	47.54	
47		17-Jun-14	592365	51628519	52.267	52.241	416.364	416.280	47.54	
48		17-Jun-14	592365	51969087	59.479	59.449	473.816	473.721	47.54	
49		17-Jun-14	592365	51564698	59.488	59.458	473.887	473.792	47.54	
50		17-Jun-14	592365	51782209	55.198	55.170	439.713	439.625	47.54	
51		17-Jun-14	592365	51956548	59.453	59.423	473.609	473.514	47.54	
52		17-Jun-14	592365	51715167	59.398	59.368	473.170	473.075	47.54	
53		17-Jun-14	592365	58707423	59.400	59.370	473.186	473.091	47.54	
54		17-Jun-14	592365	50362656	55.016	54.988	438.263	438.175	47.54	
55		17-Jun-14	592365	51749398	53.169	53.142	423.550	423.465	47.54	
56		17-Jun-14	592365	54887328	59.395	59.365	473.147	473.052	47.54	
57		17-Jun-14	592365	50738707	52.596	52.570	418.985	418.901	47.54	
58		17-Jun-14	592365	51722502	55.056	55.028	438.582	438.494	47.54	
59		17-Jun-14	592365	51695641	55.016	54.988	438.263	438.175	47.54	
60		17-Jun-14	592365	51651693	59.406	59.376	473.234	473.139	47.54	
61		17-Jun-14	592365	51567139	59.332	59.302	472.645	472.550	47.54	
62		17-Jun-14	592365	51567543	59.359	59.329	472.860	472.765	47.54	
63		17-Jun-14	592365	51424497	52.662	52.636	419.511	419.427	47.54	
64		17-Jun-14	592365	57699555	59.340	59.310	472.708	472.613	47.54	
65		17-Jun-14	592365	75025403	59.335	59.305	472.669	472.574	47.54	
66		17-Jun-14	592365	75025379	59.344	59.314	472.740	472.645	47.54	
67		17-Jun-14	592365	75025387	59.388	59.358	473.091	472.996	47.54	
68		17-Jun-14	592365	75025353	59.352	59.322	472.804	472.709	47.54	
69		17-Jun-14	592365	75025460	59.344	59.314	472.740	472.645	47.54	
70		17-Jun-14	592365	75025700	59.396	59.366	473.154	473.059	47.54	
71		17-Jun-14	592365	75025528	59.359	59.329	472.860	472.765	47.54	
72		17-Jun-14	592365	75025684	59.406	59.376	473.234	473.139	47.54	
Totals of Pages 1 and 2 :					4,110.093	4,108.022	32,741.410	32,734.841		

GOST Calculation: Gross US barrels at 60°F were received from Gross Mt vac multiplied by the factor from GOST 8.595-2010
 API Gravity converted from RWB Density at 15 °C by ASTM T51. RWB Density at 15°C converted from RWB Density
 at 20°C by ASTM T 53A.

For and on behalf of "Petrochemtest" Limited Liability Company: Dmitriy Zinov