



Your Reference:

Tengizchevroil

For the attention of:

Report no.	RU 0122
Date of report	October 1, 2012
Vessel	TBA
Location	Taman, Russia
Inspection date	October 1, 2012

Inventory

We have pleasure in enclosing herewith, our report for the above referenced inspection.

Report distribution has been effected as follows:
To yourselves in original only together with our relevant invoice.

Should you have any query, or require any additional information, please contact Mr. A. Sharipov at our Taman office (telephone number +7 495 123 45 67).

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Vessel TBA
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Report no.: RU 0122
 Date of report: October 1, 2012
 Location: Taman, Russia
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 Vessel Name: TBA
 Operation: Inventory

CRUDE OIL SUMMARY REPORT

Quantity calculations are based on
 ASTM D 1250-2004

BILLS OF LADING

Totals: Gross	Cubic Metres at 15°C	US barrels at 60°F	US gallons at 60°F	Metric Tons in vacuo	Metric Tons in air	Long tons
Tengiz Crude Oil						

Totals: Net	Cubic Metres at 15°C	US barrels at 60°F	US gallons at 60°F	Metric Tons in vacuo	Metric Tons in air	Long tons
Tengiz Crude Oil						

CRUDE OIL SHORE TANKS

Totals: Gross	Cubic Metres at 15°C	US barrels at 60°F	US gallons at 60°F	Metric Tons in vacuo	Metric Tons in air	Long tons
Tengiz Crude Oil	123 561.140	777 571.00	32 657 982.00	97 675.025	97 539.108	95 998.57

Totals: Net	Cubic Metres at 15°C	US barrels at 60°F	US gallons at 60°F	Metric Tons in vacuo	Metric Tons in air	Long tons
Tengiz Crude Oil	122 867.962	775 992.00	32 591 664.00	97 416.624	97 281.067	95 744.61

CRUDE OIL PIPELINES

Totals: Gross	Cubic Metres at 15°C	US barrels at 60°F	US gallons at 60°F	Metric Tons in vacuo	Metric Tons in air	Long tons
Tengiz Crude Oil	8 942.192	56 274.00	2 363 508.00	7 077.745	7 067.908	6 956.27

Totals: Net	Cubic Metres at 15°C	US barrels at 60°F	US gallons at 60°F	Metric Tons in vacuo	Metric Tons in air	Long tons
Tengiz Crude Oil	8 924.781	56 165.00	2 358 930.00	7 059.912	7 050.096	6 938.76

Representative of "Tamanneftegas": A. Sharipov

Representative of "SGS": A. Lotkov



CRUDE OIL SHORE TANK REPORT

Quantity calculations are based on ASTM D 1250-2004
Volume Correction Factor: by Table 54A

Report no.: RU 0122
Date of report: October 1, 2012
Location: Taman, Russia
Inspection date: October 1, 2012
Vessel Name: TBA
Operation: Inventory
Measurements by: Tank Radar

		Shore tank No. 2		Shore tank No. 3	
		Open	Close	Open	Close
		Tengiz Crude Oil	Tengiz Crude Oil	Tengiz Crude Oil	Tengiz Crude Oil
Grade of Crude Oil					
Gauge	Metres	23.162		6.394	
Total Observed Volume	Cu Metres	37 748.616		10 355.607	
Free Water Gauge	Metres				
Free Water Volume	Cu Metres				
Roof correction (calculated)	Cu Metres	0.617		0.618	
Status of the line		Full		Full	
Line	Cu Metres				
Calculated Shell correction factor		0.99990		0.99988	
Gross Observed Volume	Cu Metres	37 748.000		10 354.990	
G.O.V. corrected for shell	Cu Metres	37 744.230		10 353.750	
Density at 15°C	Mt vac/Cu m	0.7902		0.7894	
Observed temperature	°C	15.800		15.000	
Volume Corrected Factor	by Table 54A	0.99921		1.00000	
Gross Standard Volume at 15°C	Cu Metres	37 714.410		10 353.750	
Total Sediments, Water	volume %	0.203		0.196	
Net Standard Volume, at 15°C	Cu Metres	37 637.670		10 333.480	
Gross Metric Tons	(Vac)	29 801.927		8 173.250	
Total Sediments, Water	mass %	0.265		0.256	
Net Metric Tons	(Vac)	29 722.952		8 152.326	
Difference, GSV at 15°C	Cu Metres	37 714.41		10 353.75	
Difference, Gross Metric Tons	(Vac)	29 801.93		8 173.25	
Difference, NSV at 15°C	Cu Metres	37 637.67		10 333.48	
Difference, Net Metric Tons	(Vac)	29 722.95		8 152.33	

		Shore tank No. 4		Shore tank No. 6	
		Open	Close	Open	Close
		Tengiz Crude Oil	Tengiz Crude Oil	Tengiz Crude Oil	Tengiz Crude Oil
Grade of Crude Oil					
Gauge	Metres	23.167		23.163	
Total Observed Volume	Cu Metres	37 733.662		37 715.259	
Free Water Gauge	Metres				
Free Water Volume	Cu Metres				
Roof correction (calculated)	Cu Metres	0.602		0.597	
Status of the line		Full		Full	
Line	Cu Metres				
Calculated Shell correction factor		0.99987		0.99986	
Gross Observed Volume	Cu Metres	37 733.060		37 714.660	
G.O.V. corrected for shell	Cu Metres	37 728.150		37 709.380	
Density at 15°C		0.7907		0.7909	
Observed temperature	°C	14.500		14.000	
Volume Corrected Factor	by Table 54A	1.00049		1.00098	
Gross Standard Volume, at 15°C	Cu Metres	37 746.640		37 746.340	
Total Sediments, Water	volume %	0.212		0.196	
Net Standard Volume, at 15°C	Cu Metres	37 448.593		37 448.219	
Gross Metric Tons	(Vac)	29 846.268		29 853.580	
Total Sediments, Water	mass %	0.275		0.256	
Net Metric Tons	(Vac)	29 764.191		29 777.155	
Difference, GSV at 15°C	Cu Metres	37 746.64		37 746.34	
Difference, Gross Metric Tons	(Vac)	29 846.27		29 853.58	
Difference, NSV at 15°C	Cu Metres	37 448.59		37 448.22	
Difference, Net Metric Tons	(Vac)	29 764.19		29 777.16	

Grandtotals: Gross	Cubic Metres at 15°C	US barrels at 60°F	Metric Tons (vac)	Metric Tons (air)	Long Tons
Tengiz Crude Oil	123 561.140	777 571.00	97 675.025	97 539.108	95 998.57

Grandtotals: Net	Cubic Metres at 15°C	US barrels at 60°F	Metric Tons (vac)	Metric Tons (air)	Long Tons
Tengiz Crude Oil	122 867.962	775 992.00	97 416.624	97 281.067	95 744.61

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