APPENDIX C

VOC Emissions Data – Truck Loading

C1. VOC Emission Rate Calculations / Data Sheets

C2. Tank Displacement Rate Calculations / Truck Loading Logs

ED_002592A_00000537-00001

C1. VOC Emission Rate Calculations / Data Sheets

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 8:08 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 8:24 AM
Truck No. :	1	**Load Time (hours):**	0.22

Average Concentration:		4,050 ppmvw
Average Flow Rate:		72 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**7423.03** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**210.22** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**4.63E-04** lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.00** lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.075** lb/hr
NMHC lb/hr =			**1.93** lb/hr
NMHC lb/load =			**0.42** lb/load
NMHC ton/load			**2.09E-04** ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	9:09 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	9:20 AM
Truck No. :	2	**Load Time (hours):**	0.18	

Average Concentration:		4,758 ppmvw
Average Flow Rate:		91 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**8720.04**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**246.96**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.44E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.98**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.092**	lb/hr
NMHC lb/hr =			**2.89**	lb/hr
NMHC lb/load =			**0.53**	lb/load
NMHC ton/load			**2.65E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	10:13 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	10:24 AM
Truck No. :	3	**Load Time (hours):**	0.18	

Average Concentration:		4,406 ppmvw
Average Flow Rate:		91 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**8076.25**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**228.72**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.04E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.76**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.086**	lb/hr
NMHC lb/hr =			**2.67**	lb/hr
NMHC lb/load =			**0.49**	lb/load
NMHC ton/load			**2.45E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	11:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	12:02 AM
Truck No. :	4	**Load Time (hours):**	0.19	

Average Concentration:		4,137 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**7583.54**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**214.77**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**4.73E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.48**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.082**	lb/hr
NMHC lb/hr =			**2.40**	lb/hr
NMHC lb/load =			**0.46**	lb/load
NMHC ton/load			**2.30E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	12:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	13:01 AM
Truck No. :	5	**Load Time (hours):**	0.19	

Average Concentration:		4,732 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**8673.19**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**245.63**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.42E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.83**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.095**	lb/hr
NMHC lb/hr =			**2.74**	lb/hr
NMHC lb/load =			**0.52**	lb/load
NMHC ton/load			**2.62E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	13:53 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	14:05 AM
Truck No. :	6	**Load Time (hours):**	0.19	

Average Concentration:		4,590 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**8413.62**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**238.28**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.25E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.75**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.096**	lb/hr
NMHC lb/hr =			**2.65**	lb/hr
NMHC lb/load =			**0.51**	lb/load
NMHC ton/load			**2.54E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	14:51 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	15:02 AM
Truck No. :	7	**Load Time (hours):**	0.19	

Average Concentration:		4,350 ppmvw
Average Flow Rate:		87 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**7972.49**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**225.79**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**4.98E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.61**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.102**	lb/hr
NMHC lb/hr =			**2.50**	lb/hr
NMHC lb/load =			**0.48**	lb/load
NMHC ton/load			**2.40E-04**	ton/load

Emission Rate Calculation Sheet
Total Hydrocarbon Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013	15:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013	16:01 AM
Truck No. :	8	**Load Time (hours):**	0.18	

Average Concentration:		4,761 ppmvw
Average Flow Rate:		91 scfm
Molecular Weight:	Propane	44.09 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**8726.48**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**247.14**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**5.45E-04**	lb/SCF
THC lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**2.98**	lb/hr
CH4 lb/hr =	(lb/SCF * SCFM * 60 min/hr)		**0.095**	lb/hr
NMHC lb/hr =			**2.89**	lb/hr
NMHC lb/load =			**0.53**	lb/load
NMHC ton/load			**2.65E-04**	ton/load

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 8:08 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 8:24 AM
Truck No. :	1	**Load Time (hours):**	0.22

Average Concentration:		417 ppmvw
Average Flow Rate:		72.0 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**278.17**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**7.88**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.73674E-05**	lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.075**	lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 9:09 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 9:20 AM
Truck No. :	2	**Load Time (hours):**	0.18

Average Concentration:		404 ppmvw
Average Flow Rate:		91 scfm
Molecular Weight:	(Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**269.69**	mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**7.64**	mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.68379E-05**	lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.092**	lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 10:13 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 10:24 AM
Truck No. :	3	**Load Time (hours):**	0.18

Average Concentration:	379 ppmvw
Average Flow Rate:	91 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM) =		**252.47** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**7.15** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.5763E-05** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.086** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 11:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 12:02 AM
Truck No. :	4	**Load Time (hours):**	0.19

Average Concentration:	377 ppmvw
Average Flow Rate:	87 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**251.51** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**7.12** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.57033E-05** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.082** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 12:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 13:01 AM
Truck No. :	5	**Load Time (hours):**	0.19

Average Concentration:	438 ppmvw
Average Flow Rate:	87 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM) =		**292.32** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**8.28** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.82511E-05** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.095** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 13:53 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 14:05 AM
Truck No. :	6	**Load Time (hours):**	0.19

Average Concentration:	439 ppmvw
Average Flow Rate:	87 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM)	=	**292.68** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**8.29** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.82734E-05** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.096** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 14:51 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 15:02 AM
Truck No. :	7	**Load Time (hours):**	0.19

Average Concentration:	467 ppmvw
Average Flow Rate:	87 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM) =		**311.54** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**8.82** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.94509E-05** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.102** lb/hr

Emission Rate Calculation Sheet
Methane Emissions

Facility :	Global South Portland	**Start Date/Time:**	7/2/2013 15:50 AM
Source/Location:	Residual Oil Loading Rack	**End Date/Time:**	7/2/2013 16:01 AM
Truck No. :	8	**Load Time (hours):**	0.18

Average Concentration:	417 ppmvw
Average Flow Rate:	91 scfm
Molecular Weight: (Methane)	16.04 g/mole

mg/m^3 =	(MW * PPM) / (24.055 l/mol. PPM) =		**278.31** mg/m^3
mg/SCF =	(mg/m^3) (m^3/35.31 SCF)	=	**7.88** mg/SCF
lb/SCF =	(1 lb/ 4.536E+5 mg) * (mg/SCF)	=	**1.73764E-05** lb/SCF
lb/hr =	(lb/SCF * SCFM * 60 min/hr)	=	**0.095** lb/hr

Instrumental Analyzer Monitoring Data

Facility/Site:	Global South Portland
Source:	Residual Oil Loading Rack
Truck	1
Start Date/Time:	7/2/2013 8:08 AM
End Date/Time:	7/2/2013 8:24 AM
Fill Minutes	13

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	8:08:39 AM	1362	
7/2/2013	8:09:39 AM	1964	
7/2/2013	8:10:39 AM	6291	
7/2/2013	8:11:39 AM	6397	257
7/2/2013	8:12:39 AM	5443	549
7/2/2013	8:13:39 AM	5109	549
7/2/2013	8:14:39 AM	4978	508
7/2/2013	8:15:39 AM	4886	453
7/2/2013	8:16:39 AM	4861	453
7/2/2013	8:17:39 AM	4539	449
7/2/2013	8:18:39 AM	4363	444
7/2/2013	8:19:39 AM	3908	444
7/2/2013	8:20:39 AM	3758	420
7/2/2013	8:21:39 AM	3452	388
7/2/2013	8:22:39 AM	2953	388
7/2/2013	8:23:39 AM	2490	316
7/2/2013	8:24:39 AM	2095	221
Averages		4050	417

Instrumental Analyzer Monitoring Data

Facility/Site:	Global South Portland
Source:	Residual Oil Loading Rack
Truck	2
Start Date/Time:	7/2/2013 9:09 AM
End Date/Time:	7/2/2013 9:20 AM
Fill Minutes	11

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	9:09:39 AM		
7/2/2013	9:10:39 AM		
7/2/2013	9:11:39 AM	3612	73
7/2/2013	9:12:39 AM	4449	153
7/2/2013	9:13:39 AM	4692	153
7/2/2013	9:14:39 AM	4852	274
7/2/2013	9:15:39 AM	4868	432
7/2/2013	9:16:39 AM	5137	432
7/2/2013	9:17:39 AM	5281	502
7/2/2013	9:18:39 AM	5103	592
7/2/2013	9:19:39 AM	4975	592
7/2/2013	9:20:39 AM	4972	611
7/2/2013	9:21:39 AM	4393	635
Averages		4758	404

Instrumental Analyzer Monitoring Data

Facility/Site:	Global South Portland
Source:	Residual Oil Loading Rack
Truck	3
Start Date/Time:	7/2/2013 10:13 AM
End Date/Time:	7/2/2013 10:24 AM
Fill Minutes	11

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	10:13:39 AM		
7/2/2013	10:14:39 AM	2314	45
7/2/2013	10:15:39 AM	3945	78
7/2/2013	10:16:39 AM	4258	78
7/2/2013	10:17:39 AM	4528	233
7/2/2013	10:18:39 AM	4679	410
7/2/2013	10:19:39 AM	4917	410
7/2/2013	10:20:39 AM	4887	488
7/2/2013	10:21:39 AM	4845	577
7/2/2013	10:22:39 AM	4710	577
7/2/2013	10:23:39 AM	4756	613
7/2/2013	10:24:39 AM	4630	655
Averages		4406	379

Instrumental Analyzer Monitoring Data

Facility/Site:	Global South Portland
Source:	Residual Oil Loading Rack
Truck	4
Start Date/Time:	7/2/2013 11:50 AM
End Date/Time:	7/2/2013 12:02 AM
Fill Minutes	11.5

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	11:50:39 AM	1865	58
7/2/2013	11:51:39 AM	3722	61
7/2/2013	11:52:39 AM	4142	61
7/2/2013	11:53:39 AM	4529	231
7/2/2013	11:54:39 AM	4716	402
7/2/2013	11:55:39 AM	4969	402
7/2/2013	11:56:39 AM	5125	470
7/2/2013	11:57:39 AM	4965	537
7/2/2013	11:58:39 AM	4647	537
7/2/2013	11:59:39 AM	4505	550
7/2/2013	12:00:39 PM	3995	562
7/2/2013	12:01:39 PM	3509	562
7/2/2013	12:02:39 PM	3099	472
Averages		4137	377

Instrumental Analyzer Monitoring Data

Facility/Site:	Global South Portland
Source:	Residual Oil Loading Rack
Truck	5
Start Date/Time:	7/2/2013 12:50 AM
End Date/Time:	7/2/2013 13:01 AM
Fill Minutes	11.5

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	12:51:39 PM	2941	
7/2/2013	12:52:39 PM	4155	
7/2/2013	12:53:39 PM	4570	170
7/2/2013	12:54:39 PM	4838	323
7/2/2013	12:55:39 PM	5015	323
7/2/2013	12:56:39 PM	5352	408
7/2/2013	12:57:39 PM	5698	494
7/2/2013	12:58:39 PM	5313	494
7/2/2013	12:59:39 PM	4893	518
7/2/2013	1:00:39 PM	4778	541
7/2/2013	1:01:39 PM	4682	541
7/2/2013	1:02:39 PM	4548	572
Averages		4732	438

Instrumental Analyzer Monitoring Data

Facility/Site:	Global South Portland
Source:	Residual Oil Loading Rack
Truck	6
Start Date/Time:	7/2/2013 13:53 AM
End Date/Time:	7/2/2013 14:05 AM
Fill Minutes	11.5

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	1:53:39 PM	4151	153
7/2/2013	1:54:39 PM	4651	270
7/2/2013	1:55:39 PM	5042	270
7/2/2013	1:56:39 PM	5251	385
7/2/2013	1:57:39 PM	5465	486
7/2/2013	1:58:39 PM	5509	486
7/2/2013	1:59:39 PM	5059	537
7/2/2013	2:00:39 PM	4820	582
7/2/2013	2:01:39 PM	4450	582
7/2/2013	2:02:39 PM	3992	534
7/2/2013	2:03:39 PM	3685	492
7/2/2013	2:04:39 PM	3010	492
Averages		4590	439

Instrumental Analyzer Monitoring Data

Facility/Site:	Global South Portland
Source:	Residual Oil Loading Rack
Truck	7
Start Date/Time:	7/2/2013 14:51 AM
End Date/Time:	7/2/2013 15:02 AM
Fill Minutes	11.5

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	2:51:39 PM	3188	
7/2/2013	2:52:39 PM	3988	
7/2/2013	2:53:39 PM	4457	214
7/2/2013	2:54:39 PM	4745	363
7/2/2013	2:55:39 PM	4971	363
7/2/2013	2:56:39 PM	5215	459
7/2/2013	2:57:39 PM	5153	533
7/2/2013	2:58:39 PM	4690	533
7/2/2013	2:59:39 PM	4458	556
7/2/2013	3:00:39 PM	4071	573
7/2/2013	3:01:39 PM	3762	573
7/2/2013	3:02:39 PM	3500	504
Averages		4350	467

Instrumental Analyzer Monitoring Data

Facility/Site:	Global South Portland
Source:	Residual Oil Loading Rack
Truck	8
Start Date/Time:	7/2/2013 15:50 AM
End Date/Time:	7/2/2013 16:01 AM
Fill Minutes	11

Date	Time	THC (Propane) (ppm)	Methane (ppm)
7/2/2013	3:50:39 PM	3769	136
7/2/2013	3:51:39 PM	4375	232
7/2/2013	3:52:39 PM	4819	232
7/2/2013	3:53:39 PM	5035	362
7/2/2013	3:54:39 PM	5262	461
7/2/2013	3:55:39 PM	5458	461
7/2/2013	3:56:39 PM	5224	536
7/2/2013	3:57:39 PM	4865	593
7/2/2013	3:58:39 PM	4621	593
7/2/2013	3:59:39 PM	4183	569
Averages		4761	417

Method 25A Calibration Data Sheet - THC

Source Summary	
Client:/Site:	Global South Portland
Source:/Location:	Residual Oil Loading Rack
Initial Cal Date:	2-Jul-13 7:00

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	6.5		
Combustion Air Pressure -	5.5		
Sample Pressure -	1.5		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane	x	
	Methane	0	
Program Molecular Weight:	44.09	g/mol	

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	8367	8385
Response Line	1.002	
Response Line = (Ha-Za)/(Hc-Zc)		

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	2961	2967	3008	1.4	< 5% of cylinder concentration
Mid Gas	5010	5020	5019	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #1 - 08:30					
Calcheck 1 Zero	0	1	22	0.2	< 3% of the measurement range
Calcheck 1 Mid	5010	5019	5018	0.0	< 3% of the measurement range
Calcheck #2 - 09:30					
Calcheck 2 Zero	0	1	22	0.2	< 3% of the measurement range
Calcheck 2 Mid	5010	5019	4970	0.5	< 3% of the measurement range
Calcheck #3 - 12:08					
Calcheck 3 Zero	0	1	40	0.4	< 3% of the measurement range
Calcheck 3 Mid	5010	5019	5058	0.4	< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	2,961.0	C3H8/Air	CC103130	7/10/2015	29.6%
Mid Gas	45-55	5,010.0	C3H8/Air	SA20684	3/26/2015	50.1%
High Gas	80-90	8,367.0	C3H8/Air	C111354	3/2/2016	83.7%

Method 25A Calibration Data Sheet - THC

Source Summary	
Client:/Site:	Global South Portland
Source:/Location:	Residual Oil Loading Rack
Initial Cal Date:	2-Jul-13 7:00

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

THC Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	6.5		
Combustion Air Pressure -	5.5		
Sample Pressure -	1.5		
Range -	0	-	10,000
Calibrant (choose one, x in box)	Propane	x	
	Methane	0	
Program Molecular Weight:	44.09	g/mol	

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	8367	8365
Response Line	1.002	

Response Line = (Ha-Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	2961	2967	3008	1.4	< 5% of cylinder concentration
Mid Gas	5010	5020	5019	0.0	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #4 - 14:27					
Calcheck 1 Zero	0	1	12	0.1	< 3% of the measurement range
Calcheck 1 Mid	5010	5019	5061	0.4	< 3% of the measurement range
Calcheck #5 - 15:13					
Calcheck 2 Zero	0	1	28	0.3	< 3% of the measurement range
Calcheck 2 Mid	5010	5019	4960	0.6	< 3% of the measurement range
Final Postcal - 16:05					
Calcheck 3 Zero	0	1	20	0.2	< 3% of the measurement range
Calcheck 3 Mid	5010	5019	5021	0.0	< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	2,961.0	C3H8/Air	CC103130	7/10/2015	29.6%
Mid Gas	45-55	5,010.0	C3H8/Air	SA20684	3/26/2015	50.1%
High Gas	80-90	8,367.0	C3H8/Air	C111354	3/2/2016	83.7%

Method 25A Calibration Data Sheet - Methane

Source Summary	
Client:/Site:	Global South Portland
Source:/Location:	Residual Oil Loading Rack
Initial Cal Date:	2-Jul-13 7:00

Methane Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	7		
Combustion Air Pressure -	5.5		
Carrier Gas Pressure -	22.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane	0	
	Methane	x	
Program Molecular Weight:	16.04 g/mol		

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	860	862
Response Line	1.001	

Response Line = (Ha-Za)/(Hc-Zc)

Run Summary			

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	290	290	296	2.0	< 5% of cylinder concentration
Mid Gas	504	505	506	0.3	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #1 - 08:30					
Calcheck 1 Zero	0	1	0.6	0.0	< 3% of the measurement range
Calcheck 1 Mid	504	506	504	0.2	< 3% of the measurement range
Calcheck #2 - 09:30					
Calcheck 2 Zero	0	1	1.0	0.0	< 3% of the measurement range
Calcheck 2 Mid	504	506	502	0.4	< 3% of the measurement range
Calcheck #3 - 12:08					
Calcheck 3 Zero	0	1	2.0	0.1	< 3% of the measurement range
Calcheck 3 Mid	504	506	509	0.3	< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	290	CH4/Air	CC198791	4/2/2015	29.0%
Mid Gas	45-55	504	CH4/Air	CC72704	7/10/2015	50.4%
High Gas	80-90	860	CH4/Air	CC246069	7/10/2015	86.0%

Method 25A Calibration Data Sheet - Methane

Source Summary	
Client:/Site:	Global South Portland
Source:/Location:	Residual Oil Loading Rack
Initial Cal Date:	2-Jul-13 7:00

Field Crew Summary	
Crew Member 1 -	Anthony Stratton
Crew Member 2 -	
Crew Member 3 -	

Methane Analyzer Data			
Manufacturer -	VIG		
Model/Serial Number -	200/2660406		
Fuel Pressure -	7		
Combustion Air Pressure -	5.5		
Carrier Gas Pressure -	22.0		
Range -	0	-	1,000
Calibrant (choose one, x in box)	Propane	0	
	Methane	x	
Program Molecular Weight:	16.04	g/mol	

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	860	862
Response Line	1.001	

Response Line = (Ha-Za)/(Hc-Zc)

Run Summary			

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Acceptance Criteria
Low Gas	290	290	296	2.0	< 5% of cylinder concentration
Mid Gas	504	505	506	0.3	< 5% of cylinder concentration

Where:

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	Initial Test Response	Final Test Response	Calibration Drift	Acceptance Criteria
Calcheck #4 - 14:27					
Calcheck 1 Zero	0	1	0.6	0.0	< 3% of the measurement range
Calcheck 1 Mid	504	506	512	0.6	< 3% of the measurement range
Calcheck #5 - 15:13					
Calcheck 2 Zero	0	1	0.6	0.0	< 3% of the measurement range
Calcheck 2 Mid	504	506	508	0.2	< 3% of the measurement range
Final Postcal - 16:05					
Calcheck 3 Zero	0	1	1.0	0.0	< 3% of the measurement range
Calcheck 3 Mid	504	506	506	0.0	< 3% of the measurement range

Where:

$$\text{Calibration Drift} = \frac{(\text{Final Test Response} - \text{Initial Test Response})}{\text{Measurement Range}} * 100$$

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel	N/A		UHP H2		N/A	N/A
Combustion Air			UHP Air		N/A	
Zero Gas	0	0	UHP Air		N/A	0.0%
Low Gas	25-35	290	CH4/Air	CC198791	4/2/2015	29.0%
Mid Gas	45-55	504	CH4/Air	CC72704	7/10/2015	50.4%
High Gas	80-90	860	CH4/Air	CC246069	7/10/2015	86.0%

1 of 2

Method 25A Data Sheet — THC

Client: Global
Facility: South Portland, ME
Source: Residual Oil Loading Rack
Test Location: Tanker Truck Fill Port
Date: 2 July 2013

THC Analyzer Data

Manufacturer: VIG
Model/Serial Number: 200/ 2660406
Fuel Pressure: 6.5
Combustion Air Pressure: 5.5
Sample Pressure: 1.5
Measurement Range: 0-10000 as C_3H_8 (Propane)
Response Time: 1 minute

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	8367	8385
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas	2961		3008		< 5% of cylinder concentration
Mid Gas	5010		5019		< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Cal Check #1 0830 Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance
Test Run 1 Zero	0		22		< 3% of the measurement range
Test Run 1 Mid	5010		5018		< 3% of the measurement range
Cal Check #2 0930					Test Run 1 Avg. Conc.
Test Run 2 Zero	0		22		< 3% of the measurement range
Test Run 2 Mid	5010		4970		< 3% of the measurement range
Cal Check #3 12:08					Test Run 2 Avg. Conc.
Test Run 3 Zero	0		40		< 3% of the measurement range
Test Run 3 Mid	5010		5058		< 3% of the measurement range
Calibration Drift = (Actual Response - CE Test Response) * 100 / Measurement Range					Test Run 3 Avg. Conc.

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35	2961	C_3H_8/Air	CC162830	7-10-15	
Mid Gas	45 - 55	5010	C_3H_8/Air	SA24689	3-26-15	
High Gas	80 - 90	8367	C_3H_8/Air	CC111354	3-2-16	

Method 25A Data Sheet

Client: Global
Facility: S. Portland, ME
Source: Residual Oil Loading Rack
Test Location: Tanker Truck Fill Pipe
Date: 2 July 2013

THC Analyzer Data
Manufacturer: See Page 1 of 2
Model/Serial Number:
Fuel Pressure:
Combustion Air Pressure:
Sample Pressure:
Measurement Range:
Response Time:

Test Data

Test Number	1	2	3
Start Time			
Stop Time			

Testers:

Calibration Error Test Data		
Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas		
High Gas		
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas					< 5% of cylinder concentration
Mid Gas					< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Cal check #4 1427 — Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance
Test Run 1 Zero	0		12		< 3% of the measurement range
Test Run 1 Mid	5010		5061		< 3% of the measurement range
Cal check #5 1513					Test Run 1 Avg. Conc.
Test Run 2 Zero	0		28		< 3% of the measurement range
Test Run 2 Mid	5010		4960		< 3% of the measurement range
Final Post Cal 1605					Test Run 2 Avg. Conc.
Test Run 3 Zero	0		20		< 3% of the measurement range
Test Run 3 Mid	5010		5021		< 3% of the measurement range
Calibration Drift = (Actual Response - CE Test Response) / Measurement Range * 100					Test Run 3 Avg. Conc.

Gas Cylinder Data						
Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

Method 25A Data Sheet — Methane

Client: Global
Facility: South Portland ME
Source: Residual Oil Loading Rack
Test Location: Tanker Truck Fill Port
Date: 2 July 2010

THC Analyzer Data

Manufacturer: VIG
Model/Serial Number: 200 / 266G0406
Fuel Pressure: 7.0
Combustion Air Pressure: 5.5
~~Sample Pressure~~ Carrier Gas 22 PSI
Measurement Range: 0-1000 as CH_4 (Methane)
Response Time: 3 minutes

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas	0	1
High Gas	860	862
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas	290		296		< 5% of cylinder concentration
Mid Gas	504		506		< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)
Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance
Test Run 1 Zero	0		0.6		< 3% of the measurement range
Test Run 1 Mid	504		504		< 3% of the measurement range
Calcheck #2 0930					Test Run 1 Avg. Conc.
Test Run 2 Zero	0		1		< 3% of the measurement range
Test Run 2 Mid	504		502		< 3% of the measurement range
Calcheck #3 12:08					Test Run 2 Avg. Conc.
Test Run 3 Zero	0		2		< 3% of the measurement range
Test Run 3 Mid	504		509		< 3% of the measurement range
Calcheck #4					Test Run 3 Avg. Conc.

Calcheck #1 0830

Calibration Drift = (Actual Response - CE Test Response) / Measurement Range * 100

Gas Cylinder Data

Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35	290	CH_4/Air	CC198791	4-2-17	
Mid Gas	45 - 55	504	CH_4/Air	CC72604	7-7-13	
High Gas	80 - 90	860	CH_4/Air	CC246066	7-10-15	

Method 25A Data Sheet – Methane

Client	Global
Facility	S. Portland, ME
Source	
Test Location	
Date	

THC Analyzer Data

Manufacturer	See Page 1 of 2
Model/Serial Number	
Fuel Pressure	
Combustion Air Pressure	
Sample Pressure	
Measurement Range	
Response Time	

Test Data

Test Number	1	2	3
Start Time			
Stop Time			
Testers			

Calibration Error Test Data

Calibration Gas	Cylinder Concentration	Actual Response
Zero Gas		
High Gas		
Response Line		

Response Line = (Ha/Za)/(Hc-Zc)

Calibration Gas	Cylinder Concentration	Predicted Response	Actual Response	Calibration Error	Criteria Acceptance
Low Gas					< 5% of cylinder concentration
Mid Gas					< 5% of cylinder concentration

Predicted Response = (Cylinder Concentration) x (Response Line)

Calibration Error = (Actual Response - Predicted Response) / Cylinder Concentration x 100

Calibration Drift Test Data

Calibration Gas	Cylinder Concentration	CE Test Response	Actual Response	Calibration Drift	Criteria Acceptance	
Test Run 1 Zero	0		0.6		< 3% of the measurement range	
Test Run 1 Mid	504		512		< 3% of the measurement range	
					Test Run 1 Avg. Conc.	
Test Run 2 Zero	0		0.6		< 3% of the measurement range	
Test Run 2 Mid	504		508		< 3% of the measurement range	
					Test Run 2 Avg. Conc.	
Test Run 3 Zero	0		1		< 3% of the measurement range	
Test Run 3 Mid	504		506		< 3% of the measurement range	
Calibration Drift = (Actual Response - CE Test Response) * 100 / Measurement Range					Test Run 3 Avg. Conc.	

Gas Cylinder Data

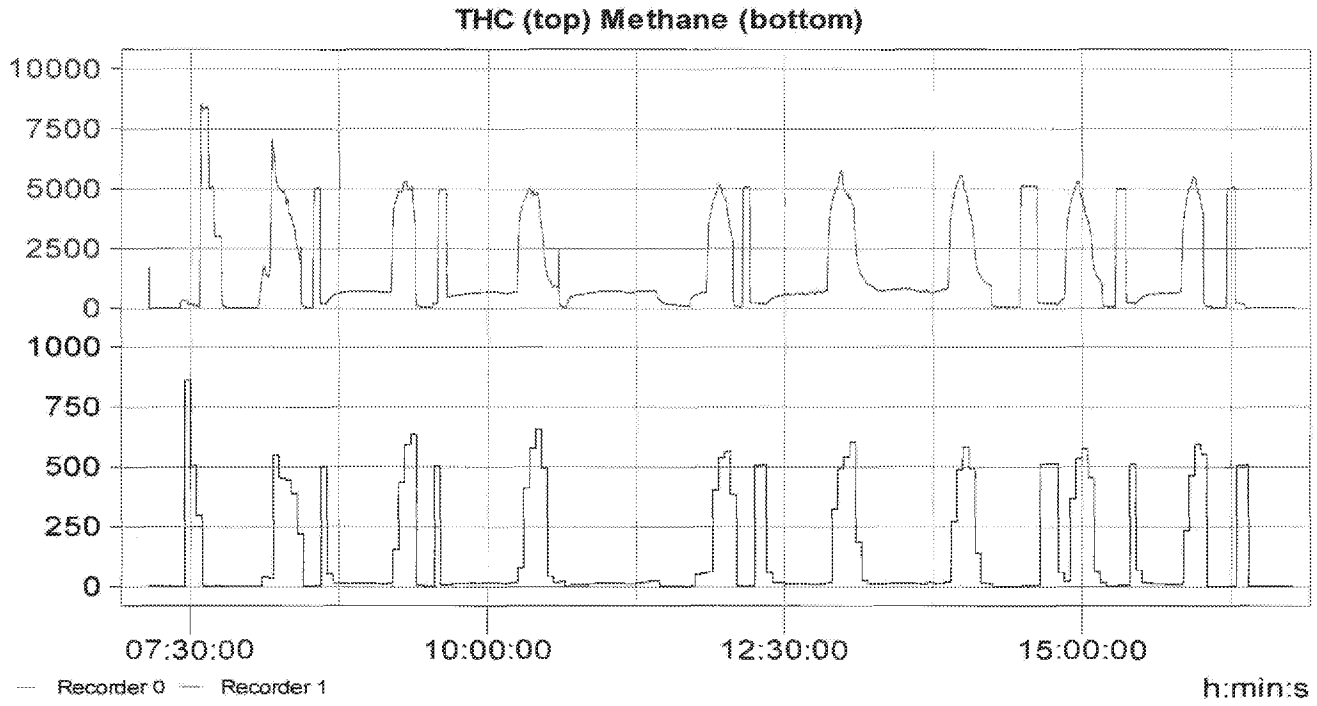
Calibration Gas	Required % of Span	Cylinder Concentration	Cylinder Composition	Cylinder Number	Expiration Date	Actual % of Span
Fuel			UHP H2			
Combustion Air			UHP Air			
Low Gas	25 - 35					
Mid Gas	45 - 55					
High Gas	80 - 90					

C2. Tank Displacement Rate Calculations / Truck Loading Logs

Global South Portland - Residual Oil Loading Rack
Tank Air Displacement Calculations
2-Jul-13

Truck No.	Start Time	End Time	Load Time (minutes)	Load (gallons)	Fill Rate (gal/hr)	Displacement (scfm)	NMHC (lb/hr)	NMHC (lb/load)	NMHC (Ton/load)
1	8:08	8:25	13	7000	32308	72.0	1.93	0.417	2.09E-04
2	9:09	9:20	11	7507	40947	91.2	2.89	0.529	2.65E-04
3	10:13	10:24	11	7502	40920	91.2	2.67	0.490	2.45E-04
4	11:50	12:02	11.5	7507	39167	87.3	2.40	0.459	2.30E-04
5	12:50	13:01	11.5	7502	39141	87.2	2.74	0.525	2.62E-04
6	13:53	14:05	11.5	7502	39141	87.2	2.65	0.508	2.54E-04
7	14:51	15:02	11.5	7507	39167	87.3	2.50	0.480	2.40E-04
8	15:50	16:01	11	7507	40947	91.2	2.89	0.529	2.65E-04
Average:			**12**	**7442**	**38967**	**86.8**	**2.58**	**0.492**	**2.46E-04**

Note: One Gallon = 0.13368 cubic feet



All BOL Records

(Summary)

Terminal 5335
Global Companies LLC
1 Clark Road
South Portland, ME 04106

Criteria: Start Date/Time is between 07/02/2013 00:00:01 and 07/02/2013 23:59:59
Product Id is equal to '0068'
Customer Id is equal to '9999'
All volumes in Gallons

BOL: 97640 Station: 8 Start Date/Time: 07/02/2013 08:07 End Date/Time: 07/02/2013 09:07
Ver: 3 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9271 Profenno, Mark
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 11:31

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,006	6,837
			Total	7,006	6,837

BOL: 97642 Station: 8 Start Date/Time: 07/02/2013 09:08 End Date/Time: 07/02/2013 10:09
Ver: 3 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9271 Profenno, Mark
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 11:35

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,507	7,326
			Total	7,507	7,326

BOL: 97644 Station: 8 Start Date/Time: 07/02/2013 10:12 End Date/Time: 07/02/2013 11:12
Ver: 3 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9282 LESTER JOHN GL
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 11:44

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,502	7,321
			Total	7,502	7,321

BOL: 97646 Station: 8 Start Date/Time: 07/02/2013 11:48 End Date/Time: 07/02/2013 12:48
Ver: 1 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9282 LESTER JOHN GL
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 12:48

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,507	7,279
			Total	7,507	7,279

BOL: 97650 Station: 8 Start Date/Time: 07/02/2013 12:48 End Date/Time: 07/02/2013 13:47
Ver: 1 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9282 LESTER JOHN GL
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 13:47

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,502	7,273
			Total	7,502	7,273

BOL: 97653 Station: 8 Start Date/Time: 07/02/2013 13:50 End Date/Time: 07/02/2013 14:42
Ver: 1 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9282 LESTER JOHN GL
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 14:42

Tank Pcode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume

Terminal 5335
Global Companies LLC
1 Clark Road
South Portland, ME 04106

0	B	0068	# 6 OIL (2.0%)	7,507	7,277
			Total	7,507	7,277

BOL: 97655 Station: 8 Start Date/Time: 07/02/2013 14:47 End Date/Time: 07/02/2013 15:02
Ver: 1 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9271 Profenno, Mark
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 15:02

Tank Scode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,507	7,275
			Total	7,507	7,275

BOL: 97657 Station: 8 Start Date/Time: 07/02/2013 15:47 End Date/Time: 07/02/2013 16:00
Ver: 1 Customer: 9999 TEST CUSTOMER Customer Account: 06902458
Carrier: 9998 GLOBAL HOUSE SO. PTLD Driver: 9271 Profenno, Mark
Truck: Trailers: Railcar:
PO Number: Last Modified: 07/02/2013 16:00

Tank Scode	Type	Tracking	Product Code / Description	Gross Volume	Net Volume
0	B		0068 # 6 OIL (2.0%)	7,507	7,274
			Total	7,507	7,274

Grand Total	59,545	57,882

8 BOL(s) selected.

CARRIER CERTIFIES THAT THE TANK SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPORTATION OF THE PRODUCT HEREIN DESCRIBED. CARRIER TERMS WILL BE THOSE OF EITHER THE CONTRACT BETWEEN SHIPPER AND CARRIER OR THE LAWFULLY APPLICABLE TARIFFS IF A CARRIER IS A COMMON CARRIER

FOR CUSTOMERS RECEIVING DYED DIESEL FUEL:

DYED DIESEL FUEL, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING DYED KEROSENE:

DYED KEROSENE, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING GASOLINE:

THIS GASOLINE MAY CONTAIN OXYGENATES BUT DOES NOT MEET CARBON MONOXIDE NON-ATTAINMENT AREA REQUIREMENTS FOR OXYGENATED GASOLINES. NOT FOR SALE TO ULTIMATE CONSUMERS IN A CONTROL AREA DURING A CONTROL PERIOD.

SIGNATURE OF DRIVER: _____

Profenno, Mark GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION: TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO.	MANIFEST NO.	DATE	CUSTOMER NO.	DRIVER NO.	CARRIER
5335	97640	START : 07/02/2013 08:07 FINISH : 07/02/2013 09:07		9271	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #62473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT	TEMP	GRAVITY	60DEG GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III 0068	# 6 OIL (2.0%)		123.0	11.9	7006	6837

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,831 per gallon

Please Visit Our Website @ WWW.GLOBALP.COM or Call 1-800-685-7222
Updated Material Safety Data Sheets are available at www.globalp.com
or by phone at 781-894-8800
Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

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DYED DIESEL FUEL, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE.

FOR CUSTOMERS RECEIVING DYED KEROSENE:
DYED KEROSENE, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE.

FOR CUSTOMERS RECEIVING GASOLINE:
THIS GASOLINE MAY CONTAIN OXYGENATES BUT DOES NOT MEET CARBON MONOXIDE NON-ATTAINMENT AREA REQUIREMENTS FOR OXYGENATED GASOLINES. NOT FOR SALE TO ULTIMATE CONSUMERS IN A CONTROL AREA DURING A CONTROL PERIOD.

SIGNATURE OF DRIVER: _____

Profenno, Mark GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION: TEST CUSTOMER / 9999 ACCT #
PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO.	MANIFEST NO.	DATE	CUSTOMER NO.	DRIVER NO.	CARRIER
5335	97642	START : 07/02/2013 09:08		9271	9998
	REPRINT 3	FINISH : 07/02/2013 10:09			GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT.	TEMP.	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, 0068	FUEL OIL # 6, 3, PG III # 6 OIL (2.0%)		123.0	11.9	7507	7326

Sulfur Content 1.993% Wt. / Ash 0.034 / BTU 151,631 per gallon

Please Visit Our Website @ WWW.GLOBALP.COM or Call 1-800-665-7222
Updated Material Safety Data Sheets are available at www.globalp.com
or by phone at 781-894-8800
Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

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FOR CUSTOMERS RECEIVING DYED DIESEL FUEL:
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FOR CUSTOMERS RECEIVING DYED KEROSENE:
DYED KEROSENE, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE.

FOR CUSTOMERS RECEIVING GASOLINE:
THIS GASOLINE MAY CONTAIN OXYGENATES BUT DOES NOT MEET CARBON MONOXIDE NON-ATTAINMENT AREA REQUIREMENTS FOR OXYGENATED GASOLINES. NOT FOR SALE TO ULTIMATE CONSUMERS IN A CONTROL AREA DURING A CONTROL PERIOD.

SIGNATURE OF DRIVER: John Lester

LESTER JOHN GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION: TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO.	MANIFEST NO.	DATE	CUSTOMER NO.	DRIVER NO.	CARRIER
5335	97644	START : 07/02/2013 10:12 FINISH : 07/02/2013 11:12		9282	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT.	TEMP.	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III 0068	# 6 OIL (2.0%)		123.0	11.9	7502	7321

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,931 per gallon

Please Visit Our Website @ WWW.GLOBALP.COM or Call 1-800-685-7222
Updated Material Safety Data Sheets are available at www.globalp.com
or by phone at 781-894-8800
Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

CARRIER CERTIFIES THAT THE TANK SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPORTATION OF THE PRODUCT HEREIN DESCRIBED. CARRIER TERMS WILL BE THOSE OF EITHER THE CONTRACT BETWEEN SHIPPER AND CARRIER OR THE LAWFULLY APPLICABLE TARIFFS IF A CARRIER IS A COMMON CARRIER.

FOR CUSTOMERS RECEIVING DYED DIESEL FUEL:
DYED DIESEL FUEL, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE.

FOR CUSTOMERS RECEIVING DYED KEROSENE:
DYED KEROSENE, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE.

FOR CUSTOMERS RECEIVING GASOLINE:
THIS GASOLINE MAY CONTAIN OXYGENATES BUT DOES NOT MEET CARBON MONOXIDE NON-ATTAINMENT AREA REQUIREMENTS FOR OXYGENATED GASOLINES. NOT FOR SALE TO ULTIMATE CONSUMERS IN A CONTROL AREA DURING A CONTROL PERIOD.

SIGNATURE OF DRIVER:

LESTER JOHN GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION: TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO	TRUCK LICENSE NO	TRAILER NO	TRAILER LICENSE NO

TERM NO	MANIFEST NO	DATE	CUSTOMER NO	DRIVER NO	CARRIER
5335	97046	START : 07/02/2013 11:48 FINISH : 07/02/2013 12:48		9282	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 9

PRODUCT CODE	PRODUCT NAME	OCT.	TEMP.	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III 0066	# 6 OIL (2.0%)		138.8	11.9	7507	7279

Sulfur Content 1.993% Wt. / Ash 0.034 / BTU 151,831 per gallon

Please Visit Our Website @ WWW.GLOBALP.COM or Call 1-800-565-7222
Updated Material Safety Data Sheets are available at www.globalp.com
or by phone at 781-894-8600
Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

CARRIER CERTIFIES THAT THE TANK SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPORTATION OF THE PRODUCT HEREIN DESCRIBED. CARRIER TERMS WILL BE THOSE OF EITHER THE CONTRACT BETWEEN SHIPPER AND CARRIER OR THE LAWFULLY APPLICABLE TARIFFS IF A CARRIER IS A COMMON CARRIER

FOR CUSTOMERS RECEIVING DYED DIESEL FUEL:
DYED DIESEL FUEL, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING DYED KEROSENE:
DYED KEROSENE, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING GASOLINE:
THIS GASOLINE MAY CONTAIN OXYGENATES BUT DOES NOT MEET CARBON MONOXIDE NON-ATTAINMENT AREA REQUIREMENTS FOR OXYGENATED GASOLINES. NOT FOR SALE TO ULTIMATE CONSUMERS IN A CONTROL AREA DURING A CONTROL PERIOD.

SIGNATURE OF DRIVER

LESTER JOHN GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION TEST CUSTOMER / 9999 ACCT # PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO.	MANIFEST NO.	DATE	CUSTOMER NO.	DRIVER NO.	CARRIER
5335	97650	START : 07/02/2013 12:48 FINISH : 07/02/2013 13:47		9282	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT.	TEMP.	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III 0066	# 6 OIL (2.0%)		139.2	11.9	7502	7273

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,631 per gallon

Please Visit Our Website @ WWW.GLOBALP.COM or Call 1-800-685-7222
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or by phone at 781-894-8800
Emergency Response information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

CARRIER CERTIFIES THAT THE TANK SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPORTATION OF THE PRODUCT HEREIN DESCRIBED. CARRIER TERMS WILL BE THOSE OF EITHER THE CONTRACT BETWEEN SHIPPER AND CARRIER OR THE LAWFULLY APPLICABLE TARIFFS IF A CARRIER IS A COMMON CARRIER

FOR CUSTOMERS RECEIVING DYED DIESEL FUEL:

DYED DIESEL FUEL, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE

FOR CUSTOMERS RECEIVING DYED KEROSENE

DYED KEROSENE, NON TAXABLE USE ONLY. PENALTY FOR TAXABLE USE.

FOR CUSTOMERS RECEIVING GASOLINE

THIS GASOLINE MAY CONTAIN OXYGENATES BUT DOES NOT MEET CARBON MONOXIDE NON-ATTAINMENT AREA REQUIREMENTS FOR OXYGENATED GASOLINES. NOT FOR SALE TO ULTIMATE CONSUMERS IN A CONTROL AREA DURING A CONTROL PERIOD.

SIGNATURE OF DRIVER

LESTER JOHN GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION: TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO	TRUCK LICENSE NO	TRAILER NO	TRAILER LICENSE NO

TERM NO	MANIFEST NO	DATE	CUSTOMER NO	DRIVER NO	CARRIER
5335	97853	START : 07/02/2013 13:50 FINISH : 07/02/2013 14:42		9282	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT	TEMP	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III 0068	# 6 OIL (2.0%)		139.9	11.9	7507	7277

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,831 per gallon

Please Visit Our Website @ WWW.GLOBALP.COM or Call 1-800-685-7222
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or by phone at 781-894-8800
Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

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SIGNATURE OF DRIVER

Profenno, Mark GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION: TEST CUSTOMER / 9998

ACCT #

PO #

TRUCK NO.	TRUCK LICENSE NO.	TRAILER NO.	TRAILER LICENSE NO.

TERM NO.	MANIFEST NO.	DATE	CUSTOMER NO.	DRIVER NO.	CARRIER
5335	97655	START : 07/02/2013 14:47 FINISH : 07/02/2013 15:02		9271	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT.	TEMP.	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III 0068	# 6 OIL (2.0%)		140.3	11.9	7507	7275

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,531 per gallon

Please Visit Our Website @ WWW.GLOBALP.COM or Call 1-800-685-7222
Updated Material Safety Data Sheets are available at www.globalp.com
or by phone at 751-894-8800
Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096

CARRIER CERTIFIES THAT THE TANK SUPPLIED FOR THIS SHIPMENT IS A PROPER CONTAINER FOR THE TRANSPORTATION OF THE PRODUCT HEREIN DESCRIBED. CARRIER TERMS WILL BE THOSE OF EITHER THE CONTRACT BETWEEN SHIPPER AND CARRIER OR THE LAWFULLY APPLICABLE TARIFFS IF A CARRIER IS A COMMON CARRIER

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FOR CUSTOMERS RECEIVING DYED KEROSENE:
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SIGNATURE OF DRIVER

Profenno, Mark GL HSE

FOR PRODUCT EMERGENCY INFORMATION
Spill, Leak, Fire, Exposure or Accident
CALL CHEMTREC - DAY OR NIGHT
800-424-9300
Chemtrec Customer : CCN202096

DESTINATION TEST CUSTOMER / 9999

ACCT #

PO #

TRUCK NO	TRUCK LICENSE NO	TRAILER NO	TRAILER LICENSE NO

TERM NO	MANIFEST NO	DATE	CUSTOMER NO	DRIVER NO	CARRIER
5335	97657	START : 07/02/2013 15:47 FINISH : 07/02/2013 16:00		9271	9998 GLOBAL HOUSE SO. PTLD

SHIPPER : GLOBAL COMPANIES LLC
800 SOUTH STREET
WALTHAM, MA 02254

TERMINAL : Global Companies LLC
1 Clark Road
South Portland, ME 04106
EPA ENTITY # 4093 EPA FACILITY #82473

LOAD SPOT : 8

PRODUCT CODE	PRODUCT NAME	OCT	TEMP	GRAVITY	GROSS GALLONS	NET GALLONS
NA1993, FUEL OIL # 6, 3, PG III 0068	# 6 OIL (2.0%)		140.7	11.9	7507	7274

Sulfur Content 1.993% Wt / Ash 0.034 / BTU 151,831 per gallon

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or by phone at 781-894-8800
Emergency Response Information provider - Chemtrec 800-424-9300
Chemtrec Customer Number CCN202096