

Monthly Analysis Data for the Main Fuel Oil Storage Tank for 2000 and 2003

Date	Sulfur	Cu Corr.	Flash Point	Cetane Index	Water & sed	Dist Temp 90%	Viscosity	Cloud Point	Ash	Carbon res	Particulates	Cetane Index
	D-4294	D-130	D-93	D-976	D-1796	D-86	D-445	D-2500	D-482	D-524	D-2276	D-4737
January-03	<0.10 %	pass 1-A	140 deg F	45	<0.025%	600 deg F	2.2 cST	-4 deg F	<0.005%	0.25%	NA	NA
February-03	<0.10%	pass 1-A	147 deg F	45	<0.025%	600 deg F	2.1 cST	-4 deg F	<0.005%	0.17%	NA	NA
March-03	<0.10%	pass 1-A	136 deg F	44.7	<0.025%	600 deg F	2.1 cST	-6 deg F	<0.005%	0.17%	0.3 mg/L	NA
April Top	0.03%	pass 1-A	138 deg F	45	<0.025%	600 deg F	2.1 cST	-5 deg F	<0.005%	0.18%	3.1 mg/L	NA
April Middle	0.02%	pass 1-A	140 deg F	45.2	<0.025%	600 deg F	2.1 cST	-5 deg F	<0.005%	0.16%	NA	NA
April Bottom	0.02%	pass 1-A	138 deg F	45.2	<0.025%	600 deg F	2.1 cST	-5 deg F	<0.005%	0.18%	NA	NA
Fuel Oil Deliv.	0.05%	pass 1-A	124 deg F	45.8	<0.025%	607 deg F	1.98 cST	-5 deg F	<0.005%	0.13%	1.0 mg/L	44.6
May-03	0.04%	pass 1-A	138 deg F	44.8	<0.025%	597 deg F	2.1 cST	-5 deg F	<0.005%	0.17%	NA	43.9
June-03	0.04%	pass 1-A	134 deg F	45.4	<0.025%	595 deg F	2.08 cST	-4 deg F	<0.005%	0.16%	1.5 mg/L	44.4
July Top	0.04%	pass 1-A	136 deg F	44.9	<0.025%	597 deg F	2.06 cST	-3 deg F	<0.005%	0.19%	3.6 mg/L	44.1
July Middle	0.04%	pass 1-A	136 deg F	45.1	<0.025%	597 deg F	2.07 cST	-3 deg F	<0.005%	0.16%	2.8 mg/L	44.3
July Bottom	0.04%	pass 1-A	138 deg F	45.5	<0.025%	598 deg F	2.07 cST	-3 deg F	<0.005%	0.11%	1.9 mg/L	44.6
August-03	0.04%	pass 1-A	138 deg F	45.1	<0.025%	598 deg F	2.11 cST	-4 deg F	<0.005%	0.14%	NA	44.2
September-03	0.04%	pass 1-A	140 deg F	45.4	<0.025%	600 deg F	2.05 cSt	-3 deg F	<0.005%	0.16%	0.7 mg/L	44.4
October Top	0.04%	pass 1-A	138 deg F	45.4	<0.025%	600 deg F	2.09 cST	-3 deg F	<0.005%	0.18%	1.9 mg/L	44.5
October Middle	0.04%	pass 1-A	136 deg F	45.1	<0.025%	596 deg F	2.08 cST	-2 deg F	<0.005%	0.14%	1.7 mg/L	44.2
October Bottom	0.04%	pass 1-A	136 deg F	45.1	<0.025%	596 deg F	2.09 cST	-2 deg F	<0.005%	0.15%	1.1 mg/L	44.2
November-03	0.04%	pass 1-A	142 deg F	45.4	<0.025%	598 deg F	2.07 cST	-1 deg F	<0.005%	0.10%	2.3 mg/L	44.7
December-03	0.04%	pass 1-A	142 deg F	45.4	<0.025%	600 deg F	2.10 cSt	-2 deg F	<0.005%	0.15%	1.7 mg/L	44.3
	D-129											Pour Point
January-00	<0.1%	pass 1-A	146 deg F	46	0.00%	588 deg F	2.1 cST	NA	0.00%	0.14%	NA	<-25 deg F
February-00	<0.10	pass 1-A	146.4 deg F	46	<0.025%	586 deg F	2.10 cSt	NA	0.01%	0.14%	NA	<-30 deg F
March-00	<0.10%	pass 1-A	146.4 deg F	46.3	<0.025%	592 deg F	2.10 cSt	NA	0.00%	0.11%	1.4 mg/L	<-35 deg F
April-00	<0.10%	pass 1-A	146.4 deg F	46	<0.025%	594 deg F	2.08 cST	NA	0.00%	0.11%	NA	<-30 deg F
May-00	<0.10%	pass 1-A	151 deg F	47.2	<0.025%	590 deg F	2.09 cST	NA	0.00%	0.13%	NA	<-25 deg F
June-00	<0.10%	pass 1-A	136 deg F	45	<0.025%	582 deg F	2.10 cSt	NA	<0.005%	0.16%	3.6 mg/L	<-25 deg F
July-00	<0.10%	pass 1-A	136 deg F	46.2	<0.025%	596 deg F	2.07 cST	NA	<0.005%	0.14%	NA	<-25 deg F
August-00	<0.10%	pass 1-A	138 deg F	46	<0.025%	594 deg F	2.07 cST	NA	<0.005%	0.16%	NA	<-25 deg F
September-00	<0.10%	pass 1-A	144 deg F	45.4	<0.025%	588 deg F	2.05 cSt	3 deg F	<0.005%	0.14%	NA	<-25 deg F
October-00	<0.10%	pass 1-A	142 deg F	45.9	<0.025%	590 deg F	2.13 cSt	0 deg F	<0.005%	0.15%	NA	<-25 deg F
November-00	<0.05%	pass 1-A	140 deg F	44.5	<0.025%	596 deg F	2.07 cST	1 deg F	<0.005%	0.09%	2.2 mg/L	<-35 deg F
December-00	<0.10%	pass 1-A	142 deg F	45	<0.025%	594 deg F	2.17 cST	1 deg F	<0.005%	0.14%	4.5 mg/L	<-25 deg F

Note: Analyses Starting April, 2003 performed using ASTM D-975-02; Analyses for 2000 were performed using ASTM D-975-68

Quarterly Top, Middle and Bottom Sampling Results for the Main Fuel Oil Storage Tank 2003-2004

ASTM D978-02 & D-2276	07/14/03			10/17/03			01/21/04			4/21/04			7/22/04		
	Analysis by Martel Labs														
Parameter	Top	Middle	Bottom	Top	Middle	Bottom	Top	Middle	Bottom	Top	Middle	Bottom	Top	Middle	Bottom
Sulfur in Petroleum %	0.0387	0.0406	0.0396	0.0392	0.0387	0.0382	0.0432	0.0418	0.0435	0.0378	0.0389	0.0371	0.04	0.04	0.04
Cu-Corrosion	<1A	<1A	<1A	<1A	<1A	<1A	<1A	<1A	<1A	<1A	<1A	<1A	<1A	<1A	<1A
Flash Point, °F	136	136	138	138	136	136	140	140	140	136	136	136	130	128	128
Cetane Index	44.9	45.1	45.5	45.4	45.1	45.1	45.5	45.7	45.7	44.6	44.5	44.8	44.4	44.7	44.4
Water & Sed. % by vol	0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Distillation Temp. 90%	597	597	598	600	596	596	598	598	599	598	596	597	600	598	598
Viscosity, Kinematic	2.06	2.07	2.07	2.09	2.08	2.09	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Cloud Point °F	-3	-3	-3	-3	-2	-2	-4	-4	-4	-4	-4	-4	-2	-2	-2
Ash from Petroleum %	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Carbon Residue, %	0.19	0.16	0.11	0.18	0.14	0.15	0.14	0.16	0.13	0.07	0.08	0.15	0.09	0.09	0.09
Particulates mg/L	3.6	2.8	1.9	1.9	1.7	1.1	3.1	2.7	2.9	1.5	8.8	1.7	1	0.9	1

Notes: The Particulates data for the April sample (Bottom) appears to be an outlier

No diesel fuel oil was added to the MFOST until 07/01/2004. The new fuel oil had a flash point of 126 degrees F