M/V Empress of the North

Voyage Number:_____

Date: 5-1-07

Generator #1

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	139	114	179	168	166	26	605	60	936	50	58	188	24	62	1032	1009	8	4	3	11	11	78	104	203	955	991	967	945	922	960	927	952	875	936	982	920	901	934	935	946	1.4/1.6	-3
0400	122	94	146	145	143	26	604	60	853	47	58	188	24	62	975	957	8	8	3	11	10	78	100	203	926	941	893	887	820	899	870	911	833	909	910	875	840	882	916	873	1.4/1	-3
0800																																										
1200	132	107	154	156	154	26	605	60	357	18	65	185	24	62	740	680	0	4	2	10	0	82	98	195	707	743	632	643	633	697	624	631	574	580	647	621	515	632	668	607	1.4/1.5	-4
1600																																										
2000																																										

Generator #2

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

0000	150	114	147	145	143	26	604	60	920	50	60	188	24	59	1068	1048	0	8	1	9	10	78	105	208	930	1002	978	919	978	954	937	983	918	909	974	887	932	955	937	984	1.3/1.3	-4
0400	150	106	135	133	132	26	603	60	806	47	58	185	24	60	1032	1002	0	8	1	9	8	78	104	204	907	976	936	870	920	904	907	946	896	874	924	839	803	898	874	939	1.1/1.2	-4
0800	144	106	131	129	128	26	601	60	468	24	63	190	24	60	1049	1018	0	4	2	9	2	80	102	199	737	864	807	788	823	814	780	824	766	787	792	745	787	818	772	845	1.4/1.3	-2
1200	157	111	140	138	136	26	605	60	284	17	64	183	24	62	707	635	0	4	2	8	2	80	102	194	672	584	619	669	571	639	627	679	546	621	559	609	448	602	632	691	1.4/1.4	-2
1600	145	106	130	128	120	26	600	60	462	21	63	179	24	61	842	783	0	4	2	9	1	80	102	199	707	852	790	708	746	699	792	682	676	672	803	678	740	715	686	801	1.4/1.5	-2
2000	150	104	130	128	127	26	600	60	597	30	62	181	24	61	942	912	0	8	2	9	3	80	102	201	755	848	806	749	776	803	740	784	710	739	796	706	754	776	745	758	1.4/1.5	-2

Generator #3

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

0000	155	164	159	161	158	27	604	60	833	50	62	190	24	60	1049	1018	8	8	2	11	8	78	109	186	898	999	864	903	990	955	929	937	982	957	906	939	873	986	903	945	1.4/1.6	-2
0400																																											
0800																																											
1200	154	158	150	152	148	27	605	60	271	19	65	185	24	60	740	672	4	4	2	10	0	78	102	185	667	706	652	636	617	690	641	668	572	631	666	660	564	767	593	682	1.4/1.8	-2
1600																																											
2000																																											

Generator #4

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

0000																																											
0400																																											
0800																																											
1200																																											
1600																																											
2000																																											

M/V Empress of the North

Voyage Number:_____

Date:_____

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000	878	1648	688	42	111	885	1534	697	42	111					
0400	796	1095	578	42	111	792	978	557	42	111					
0800															
1200	400	361	290	42	111	400	352	278	42	111					
1600		DOCKED			VIC	TORIA									
2000		DOCKED			VIC	TORIA									

	Fuel Oil Tanks						Ballast Tanks			
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast
0000	15405	25260	14152	2542	587	2490	5714	300	231	25790
0400	15454	25540	14346	2302	582	2250	5668	270	229	26240
0800	15281	25420	14226	2158	575	1987	5653	210	231	25830
1200	15355	25500	14226	1930	570	1641	5662	210	231	25540
1600	15306	23690	13482	2640	535	2506	5668	210	259	24760
2000	15331	23680	13050	2542	538	2437	5668	190	231	24540

	TLI						Drive Cooling			P/W	
	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	567	680	306	25614	28007	6060		23	22.5		67
0400	564	669	306	25352	28407	5340		23	22.5		61.7
0800	567	680	301	22557	27662	5900					6-
1200	564	683	309	26117	27476	4490		23	23		69
1600	562	683	303	17925	27920	4150					62
2000	567	683	306	15886	27920	4120					57

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000	67	67	40	108	17	92/94	180	18	45	✓	8.5	49	200	125	39	46	13
0400	67	66	98.3	98.3	17	92/94	180	20	48	✓	8.5	49	190	125	44	48	13
0800	66	65	100	98	17	92/94	180	20	50	✓	8.5	49	190	125	37	41	04
1200	64	65	104	102	17	91/94	190	30	60	✓	8.5	52	200	125	37	40	04
1600	70	69	192	106	17	92/90	—	off	—	✓	8.5	50	195	125	40	43	8
2000	45	46	37	184	18	88/90	180	15	45	✓	8.5	50	195	128	40	49	6

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200 [illegible]

1600 [illegible]

2000 [illegible]

Fuel Soundings @ 0000	
Port Storage Tank	15740
Center Storage Tank	27106
Stbd Storage Tank	15740
Today's Total	58586

Fuel Calculation	
Previous Total	60741
+ Qty Bunkered	
- Today's Total	58586
Today's Consumption	2155
Voyage Consumption	9010

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 05/02/07

Generator #1

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	122	97	148	145	143	26	601	60	983	49	57	188	24	61	1027	1020	8	8	3	11	11	78	104	203	970	998	960	958	928	968	924	940	891	950	979	910	902	930	930	931	16/1	-2
0400	138	112	168	165	163	26	601	60	607	22	59	185	24	61	818	777	4	0	2	10	3	80	104	201	831	856	777	807	785	844	805	850	794	860	856	840	838	845	864	881	5/1.5	-2
0800	120	40	139	138	136	26	599	60	569	32	59	186	24	58	896	879	4	4	2	10	4	80	48	199	851	853	851	798	798	823	775	812	739	806	810	746	812	811	766	744	17/1.2	-2
1200																																										
1600																																										
2000	138	112	168	165	163	26	604	60	1073	28	59	186	24	58	890	869	4	4	2	10	14	82	104	199	864	875	815	834	795	836	778	821	755	829	838	804	836	825	796	824	1/1.2	-3

Generator #2

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	140	107	137	136	134	26	604	60	970	46	60	186	24	60	1081	1050	0	8	2	9	10	78	105	206	937	1005	974	921	976	957	939	985	918	927	973	889	924	954	936	990	14/1.5	-4
0400	141	114	145	143	141	26	604	60	573	47	60	186	24	59	1085	1056	0	8	1	9	11	78	104	204	959	1010	993	930	971	961	962	989	931	938	981	892	931	955	937	999	14/1.5	-4
0800																																										
1200	158	112	132	136	134	26	601	60	656	30	62	185	24	62	973	941	0	8	2	9	5	78	104	203	831	886	843	802	835	815	787	825	757	786	817	726	780	798	744	858	12/1.2	-4
1600	156	114	141	139	138	26	601	60	655	34	62	185	24	61	987	951	0	8	2	9	3	78	104	203	862	906	862	806	859	850	861	884	836	835	891	818	867	881	852	925	1/1	-2
2000	155	116	149	146	144	26	603	60	111	33	62	183	24	61	968	926	0	8	2	9	4	78	102	201	861	912	869	804	862	845	858	893	844	826	882	819	824	861	833	817	6/8	-3

Generator #3

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	143	148	138	140	136	27	602	60	880	46	62	188	24	60	1054	1013	8	8	2	11	9	77	107	179	893	1033	864	905	969	931	924	935	980	960	909	915	873	980	891	940	15/1.7	-2
0400	154	160	156	159	154	27	600	60	557	32	63	188	24	61	964	905	4	4	2	10	4	78	104	170	841	988	857	862	956	954	915	924	974	962	923	931	863	978	909	941	1.5/2	-2
0800																																										
1200																																										
1600																																										
2000	147	158	154	157	153	26	603	60	963	48	62	190	24	60	1041	1011	8	8	3	11	10	78	111	179	910	1012	929	944	1035	966	923	955	960	940	941	948	875	993	938	981	2/15	-2

Generator #4

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																											
0400																																											
0800																																											
1200																																											
1600																																											
2000																																											

M/V Empress of the North

Voyage Number:_____

Date: 5-2-09

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000	878	1690	707	42	111	885	1604	688	42	111					
0400	715	1191	579	42	111	691	1014	537	42	111					
0800															
1200															
1600		DOCKED		VANCOUVER											
2000	873	1654	689	42	1111	928	1664	725	42	111					

	Fuel Oil Tanks						Ballast Tanks			
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast
0000	15479	23360	12642	2444	553	2762	5722	340	231	23530
0400	15504	23270	12954	2194	572	2388	5683	250	229	24150
0800	15306	23150	12810	1967	583	1734	5662	750	231	23400
1200	15257	21540	13506	2641	579	2335	5660	210	231	24760
1600	15247	21540	13458	2604	590	2319	5653	150	229	24800
2000	15465	21290	13564	2398	588	2296	5714	280	231	23540

	TLI						Drive Cooling			P/W	
	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	570	680	311	12472	27920	41520		23	23		59
0400	577	669	309	12154	28007	38620		23	23		64
0800	565	683	301	13440	28007	6030					55
1200	561	690	301	25860	28007	6030					55
1600	559	683	301	31036	28007	6030		—			52
2000	566	680	306	30871	26075	6820		23	22		66

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000	45	46	55	250	17	86/89	—	—	—	✓	8.5	48	195	125	40	49	13
0400	44	45	63	231	17	86/89	180	18	45	✓	8.5	48	200	125	40	49	13
0800	46	47	61	243	17	86/89	180	15	45	✓	8.5	51	200	125	39	41	06
1200	47	48	58	243	17	86/89	180	15	40	✓	8.5	51	200	125	38	42	08
1600	47	48	60	231	17	88/90	180	17	45	✓	8.5	50	185	125	41	48	7
2000	52	53	65	212	17	88/90	185	23	55	✓	8	50	195	125	41	48	8

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200 [illegible]

1600 J. Edward Hemy

2000 J. Edward Hemy

Fuel Soundings @ 0000	
Port Storage Tank	15983
Center Storage Tank	24593
Stbd Storage Tank	15983
Today's Total	56559

Fuel Calculation	
Previous Total	58586
+ Qty Bunkered	
- Today's Total	56559
Today's Consumption	2027
Voyage Consumption	11037

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Afterclr. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
Generator #1 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____																																										
0000	142	116	173	170	167	26	604	60	934	47	58	190	24	60	1025	998	8	4	2	10	10	78	102	203	952	977	940	932	915	950	911	934	858	932	958	919	884	936	930	940	1.4/.8	-4
0400	126	100	145	143	142	26	608	60	432	21	60	195	24	61	780	746	0	4	2	10	1	82	98	195	675	703	678	703	702	718	651	673	570	615	696	656	527	650	662	639	1.6/.8	-3
0800	125	96	153	151	150	26	601	60	401	46	56	190	24	60	1002	984	8	8	3	10	10	78	100	204	934	967	922	924	906	924	886	916	867	925	948	889	841	849	937	907	2/2	-4
1200	142	113	170	167	164	26	604	60	415	47	56	190	24	60	1025	1002	4	8	2	10	10	78	102	203	951	944	960	955	940	956	916	944	877	937	980	919	901	934	934	942	2/2	-5
1600	122	91	141	140	139	27	608	60	480	25	60	185	24	58	890	870	4	4	2	10	6	80	98	197	735	798	686	714	717	736	677	722	633	721	762	705	679	713	694	761	2.3/2.3	-3
2000	115	86	133	133	131	27	608	60	548	24	60	186	24	60	831	793	4	4	2	10	3	82	98	197	780	833	719	752	708	752	694	761	646	726	728	706	702	706	685	783	2.4/2.4	-4
Generator #2 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____																																										
0000	157	116	150	148	146	26	603	60	947	46	60	186	24	59	1085	1054	0	10	2	9	11	78	107	208	959	1013	993	927	974	967	970	987	934	936	983	893	924	958	937	987	1.8/1	-5
0400	136	111	134	132	131	26	607	60	425	21	64	178	24	62	761	735	0	4	2	8	0	80	100	195	687	763	726	658	715	710	698	735	686	643	765	677	739	709	688	778	.9/1	-5
0800	153	110	142	141	139	26	603	60	886	52	59	198	24	59	1081	1054	0	12	2	9	13	78	105	208	937	903	981	915	963	950	944	972	916	909	963	876	971	942	978	996	1.6/.9	-5
1200	148	114	147	144	142	27	603	60	973	48	60	186	24	59	1076	1052	0	12	2	9	10	78	105	206	936	994	918	967	956	937	970	915	896	960	886	916	944	930	931	975	2/2	-6
1600	154	110	135	134	131	26	607	60	472	26	63	181	24	62	905	847	0	4	2	9	3	80	102	197	692	761	731	662	726	741	722	775	722	736	793	730	766	786	742	847	.6/.6	-4
2000	142	105	129	127	125	26	608	60	468	23	63	181	24	62	867	821	0	0	2	9	2	80	102	199	703	838	780	710	753	753	695	799	688	688	803	680	728	733	680	812	.7/.8	-2
Generator #3 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____																																										
0000	129	161	159	161	158	27	604	60	830	45	62	190	24	60	1045	1011	8	8	2	11	9	78	113		884	1004	854	904	1008	915	909	921	955	957	903	923	859	974	885	924	1.4/1.6	-3
0400																																										
0800																																										
1200	150	170	158	160	155	27	605	60	813	45	62	188	24	60	1027	998	4	8	3	11	8	72	111	179	871	972	853	896	999	933	931	912	955	951	908	925	851	974	897	925	1.7/1.7	-4
1600																																										
2000																																										
Generator #4 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____																																										
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

M/V Empress of the North

Voyage Number:_____

Date:_____

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000	872	1634	691	42	111	889	1612	697	42	111					
0400	311	280	254	42	111	311	247	238	42	111					
0800	720	1207	607	42	111	720	1053	572	42	111					
1200	880	1717	711	42	111	865	1430	658	42	111					
1600	533	400	363	42	111	565	390	343	42	111					
2000	220	147	184	42	111	230	146	183	42	111					

	Fuel Oil Tanks						Ballast Tanks				TLI						Drive Cooling			P/W	
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	15528	20340	13410	2388	597	2204	5707	320	229	24470	567	676	306	30959	22943	6160		23	22.5		65
0400	15207	20090	13722	2145	579	1890	5668	210	229	25210	564	683	306	31053	22099	4020		24	23		62.9
0800	15479	20228	14202	1497	603	1754	5699	250	231	25740	583	666	306	31021	19743	4590		23	23		62
1200	15430	20260	14713	1564	581	1331	5714	280	231	26150	571	676	311	31053	17271	4220		23	23		68
1600	15604	17780	14540	2534	582	2408	5714	300	233	26270	579	669	309	31053	13781	4710		23	23		64
2000	15331	16800	14985	2673	584	2598	5691	310	231	26650	570	680	303	31151	11571	5930		24	23		61

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000	47	47	57	118	17	88/90	—	OFF	—	✓	8	52	190	125	38	48	13
0400	65	65	101.2	99.2	17	92/94	200	45	75	✓	8	49	200	125	44	45	16
0800	51	51	99	96	17	90/92	190	30	70	✓	8.5	48	200	125	38	41	04
1200	67	67	53	108	17	90/92	190	20	50	✓	8.5	48	200	125	38	41	04
1600	46	46	96	96	17	88/90	180	25	45	✓	8.4	48	185	125	43	44	8
2000	44	45	62	141	17	88/90	185	25	55	✓	8.4	48	185	125	41	43	4

Remarks:

Watch stander's Signature:

0000 [signature]

0400 [signature]

0800 [signature]

1200 [signature]

1600 T. Edward Hong

2000 T. Edward Hong

Fuel Soundings @ 0000	
Port Storage Tank	15740
Center Storage Tank	21720
Stbd Storage Tank	15740
Today's Total	53200

Fuel Calculation	
Previous Total	56559
+ Qty Bunkered	
- Today's Total	53200
Today's Consumption	3359
Voyage Consumption	14396

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/4/07

Generator #1

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 705911 Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	121	92	150	148	146	27	603	60	987	48	58	190	24	60	1009	993	8	8	2	10	12	77	98	203	931	963	913	914	915	930	891	926	861	929	956	902	884	920	936	899	16/1	-4
0400	121	92	149	147	145	26	602	60	1041	52	58	190	24	59	998	982	8	8	2	10	12	78	100	203	927	963	915	917	896	910	880	905	862	917	942	878	883	896	903	907	1/1.6	-5
0800	125	97	155	152	150	26	604	60	1057	52	58	192	24	57	1026	1016	8	8	2	10	13	78	102	203	978	997	960	945	950	956	924	967	843	962	989	901	909	949	953	928	1.7/2	-5
1200	138	112	164	162	159	27	605	60	1080	51	58	190	24	56	1024	1016	8	8	2	10	12	78	102	203	982	993	946	947	939	962	914	958	843	958	974	921	911	918	968	927	2/2	-5
1600	135	110	156	154	151	27	603	60	575	17	60	185	24	60	656	642	0	0	1	10	0	80	98	192	714	758	665	692	705	736	660	672	583	634	710	664	539	646	678	626	2.2/2.2	-5
2000	141	115	171	169	166	27	604	60	976	48	58	190	24	56	1027	1005	8	8	2	10	10	78	100	203	965	995	951	953	950	960	915	960	898	961	973	921	907	936	943	986	1.9/1.8	-6

Generator #2

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 639572 Fuel Consumed:_____

0000	141	109	143	140	139	26	602	60	991	51	59	188	24	60	1050	1029	0	4	2	9	12	78	105	206	924	992	979	916	972	947	958	982	925	910	968	887	933	948	932	976	1/1.8	-5
0400	148	108	141	139	137	26	603	60	1068	52	59	188	24	59	1050	1029	0	4	2	9	12	78	105	208	922	987	966	962	951	943	948	974	911	899	971	891	935	942	926	975	1.8/1.7	-2
0800	137	105	139	137	135	27	603	60	1043	49	59	188	24	59	1061	1050	0	4	2	9	13	78	107	208	930	985	901	920	975	952	960	944	909	910	977	920	942	954	928	981	1.8/1.8	-2
1200	135	110	141	139	137	26	605	60	1041	50	59	188	24	59	1076	1049	0	4	2	9	12	78	105	208	941	1010	987	921	975	960	962	993	927	917	909	945	936	954	930	988	1.8/1.8	-4
1600	123	110	135	133	131	26	604	60	718	16	64	177	24	63	734	705	0	0	2	8	0	80	100	195	686	653	634	653	601	637	632	699	635	622	592	608	507	604	627	646	13/13	-2
2000	154	114	148	146	143	26	604	60	1003	48	60	188	24	60	1069	1034	0	4	2	9	11	77	104	206	938	1010	989	929	971	968	955	961	885	923	911	980	889	922	942	923	1.8/1.8	-4

Generator #3

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 774215 Fuel Consumed:_____

0000																																										
0400																																										
0800	147	149	137	136	134	27	604	60	937	48	61	190	24	60	1041	1014	8	8	3	11	9	72	113	186	886	1011	877	898	994	913	911	919	963	964	904	920	960	961	880	988	1/1.6	-4
1200	163	163	153	155	131	26	604	60	903	47	61	190	24	60	1049	1027	8	8	2	11	10	78	113	186	844	911	920	1011	933	920	938	964	965	925	930	861	954	911	911	966	1.5/1.6	-4
1600	154	159	145	149	146	27	603	60	615	20	65	185	24	~~743~~ 60	~~772~~ 743	~~772~~ 972	4	2	~~10~~ 2	10	~~78~~ 10	~~78~~ 78	104	179	655	696	630	619	664	700	600	671	518	640	614	663	563	765	598	699	1.7/1.7	-3
2000	150	163	159	161	157	27	605	60	861	45	61	190	24	60	1041	1011	8	8	2	11	11	78	114	183	885	1005	856	895	986	926	896	924	976	866	972	918	866	961	894	934	1.6/1.7	-3

Generator #4

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 778207 Fuel Consumed:_____

0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

M/V Empress of the North

Voyage Number:_____

Date: 5/4/07

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor					Fuel Oil Tanks						Ballast Tanks				TLI						Drive Cooling			P/W	
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	780	1237	620	42	111	780	1152	603	42	111						15578	16960	14831	2339	600	2211	5707	300	231	27380	862	680	309	30194	5488	6792		23	23		63
0400	780 ~~121~~	232 ~~42~~	620 ~~149~~	42 ~~147~~	111	780	1155	609	42	111						15405	16960	14861	2148	597	1889	5714	280	233	26238	564	683	309	30851	7906	3920		23	23		63
0800	900	1591	707	42	111	900	1665	705	42	111						15733	16889	15751	2076	580	1535	5645	210	229	26619	535	721	306	30635	5609	5270		23	23		62
1200	840	1661	695	42	111	900	1738	704	42	111						15844	15440	14411	2494	580	1957	5761	420	231	27570	591	652	311	30826	2246	6580		23	23		67
1600	310	404	258	42	111	900	430	265	42	111						15331	15020	15504	2178	571	1608	5681	250	231	27[illegible]	564	280	306	29789	614	7290		24	23		67
2000	560	1657	707	42	111	880	1407	677	42	111						15[illegible]	13580	15430	2519	569	2030	5699	300	231	27470	520	676	309	29797	667	6860		24	23		68

	AC Chiller Unit #__2__						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Pressure	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000	43	43	90	99	16	85/90	190	30	60	✓	8	49	180	125	42	42	13
0400	42	42.6	88	105	17	86/89	—	OFF	—	✓	8.5	49	205	125	35	43	12
0800	43	45	65	141	17	87/84	190	25	60	✓	8.5	49	200	125	36	42	06
1200	61	62	83	141	17	90/44	180	5	40	✓	8.5	49	200	125			
1600	44	44	92	94	17	87/50	180	15	45	✓	8.5	46	185	125	40	42	8
2000	41	43	61	139	17	88/92	190	28	55	✓	8	46	200	125	41	41	6

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200 [illegible]

1600 J. Edward Hardy

2000 J. Edward Hardy

Fuel Soundings @ 0000	
Port Storage Tank	15740
Center Storage Tank	17412
Stbd Storage Tank	15740
Today's Total	48892

Fuel Calculation	
Previous Total	53200
+ Qty Bunkered	
- Today's Total	48892
Today's Consumption	4308
Voyage Consumption	18704

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/5/07

Generator #1

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 707367 Fuel Consumed: 1456

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	138	112	168	165	162	26	604	60	920	46	58	188	24	55	1016	986	4	4	2	10	10	78	102	203	944	976	939	937	901	938	907	940	866	928	970	910	882	928	926	924	2/2	-6
0400	137	110	168	165	163	26	605	60	992	50	58	190	24	57	1022	1007	8	8	2	10	12	78	102	203	998	990	944	939	922	945	910	951	892	950	971	905	910	922	936	925	1.4/1.4	-7
0800	124	95	144	143	143	27	603	60	956	37	60	186	24	58	986	969	8	8	2	10	14	82	102	197	868	1004	954	953	946	962	927	952	882	962	981	930	907	948	953	930	1.8/1.6	-8
1200	139	113	166	163	160	26	605	60	326	18	60	185	24	58	725	712	0	0	2	10	0	82	102	197	758	814	706	733	740	771	700	753	660	744	906	723	700	727	734	739	2/2	-8
1600																																										
2000	117	88	137	136	135	26	600	60	1104	25	60	186	24	60	869	833	4	4	2	10	4	80	98	199	819	844	776	804	781	810	760	795	726	810	810	752	814	765	736	804	2.4/1.8	0

Generator #2

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 641033 Fuel Consumed: ~~561~~ 1461

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	140	112	145	142	140	26	604	60	925	48	60	188	24	60	1059	1024	0	4	2	9	11	78	105	206	937	887	967	910	948	936	922	961	902	889	952	873	909	938	917	962	1.4/1.4	-5
0400	155	110	144	142	140	26	605	60	1019	50	59	188	24	59	1070	1049	0	4	2	9	12	78	105	208	932	1004	974	915	962	949	958	920	903	985	903	940	902	949	925	988	1.6/1.9	-5
0800	141	150	133	136	132	26	605	60	904	46	62	188	24	60	1025	1000	0	4	3	11	12	78	104	204	880	984	840	904	941	920	916	932	943	928	915	920	851	860	902	965	1.2/1.2	-4
1200	143	112	141	139	137	26	605	60	334	27	63	181	24	62	939	926	0	4	2	9	3	78	102	199	793	864	796	807	840	825	837	867	815	817	860	798	805	850	881	887	1.2/1.2	-4
1600	151	108	136	134	131	26	602	60	799	26	62	185	24	62	930	874	0	4	2	9	4	78	104	203	834	992	960	895	932	908	914	946	891	864	929	845	844	871	832	878	.6/.7	-2
2000	140	107	135	133	131	26	602	60	887	28	62	183	24	62	930	836	0	4	1	9	4	80	102	201	790	807	810	775	815	814	757	813	734	771	759	775	806	746	839	840	.6/.6	-4

Generator #3

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 775245 Fuel Consumed: 1030

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	122	158	154	157	152	27	604	60	786	42	61	190	24	60	1029	991	8	8	2	11	9	77	113	185	875	1014	837	872	990	940	902	911	967	939	893	915	853	966	878	922	1.4/1.7	-4
0400	111	157	154	156	152	27	606	60	889	45	61	190	24	60	1036	1005	8	8	2	11	10	77	114	176	882	1018	876	912	1000	930	917	930	953	961	918	916	862	964	899	942	.9/.6	-4
0800	148	105	129	126	124	27	603	60	470	50	60	188	24	59	1063	1036	8	8	2	9	11	78	104	204	941	947	967	908	954	943	950	978	918	904	979	896	934	947	921	980	1.6/1.6	-4
1200	165	160	152	155	151	27	605	60	307	19	64	185	24	63	774	676	4	4	2	10	1	78	107	181	668	765	700	701	735	779	691	748	697	739	746	730	636	791	636	730	1.8/1.8	-4
1600																																										
2000																																										

Generator #4

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 4778207 Fuel Consumed: 0

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

M/V Empress of the North

Voyage Number:_____

Date:_____

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000	860	1601	770	42	111	860	1447	693	42	111					
0400	880	1618	695	42	111	900	1743	715	42	111					
0800	500	805	399	42	111	500	725	373	42	111					
1200	350	267	274	42	111	350	245	267	42	111					
1600		DOCKED			KETCHIKAN										
2000	555	1110	474	42	111	579	1343	340	42	111					

	Fuel Oil Tanks						Ballast Tanks			
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast
0000	15578	12130	15604	2680	537	2211	5722	380	231	27026
0400	15553	12130	15604	2253	598	1760	5745	340	231	27140
0800	15627	12130	15562	1927	592	1461	5745	400	231	26690
1200	15627	9990	15525	2601	555	2152	5714	360	231	26920
1600	15465	8800	14816	2239	564	2083	5679	350	229	26270
2000	15701	8840	13770	2627	555	2345	5745	420	229	26110

	TLI						Drive Cooling			P/W	
	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	560	680	309	22833	702	6000		24	23		65.5
0400	571	680	309	21917	702	4610		24	23		65.1
0800	664	689	311	18674	737	5200		23	23		62
1200	567	664	311	15667	714	5930		23	23		63
1600	565	683	303	31151	23034	5400					51
2000	591	666	311	31216	24600	4910		24	23		52

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000	43	44	91	96	17	86/90	—	OFF	—	✓	8.5	48	200	125	38	40	13
0400	42	43	88	96	16	86/90	170	20	45	✓	8	47	190	125	42	42	13
0800	44	46	58	144	17	86/90		OFF	Line		8.5	47	200	125	42	42	13
1200	45	46	67	134	17	86/90	190	30	60	✓	8.5	4.7	200	125	38	44	08
1600	43	45	93	93	18	88/90	190	30	60	✓	8.5	46	185	125	42	41	8
2000	60	65	83	136	17	92/90	180	25	45	✓	8.5	45	195	125	40	42	8

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200 [illegible]

1600 [illegible]

2000 [illegible]

Fuel Soundings @ 0000	
Port Storage Tank	15740
Center Storage Tank	13103
Stbd Storage Tank	15740
Today's Total	44583

Fuel Calculation	
Previous Total	48892
+ Qty Bunkered	
- Today's Total	44583
Today's Consumption	4309
Voyage Consumption	23013

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/6/07

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
Generator #1 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 708424 Fuel Consumed: 1057																																										
0000	115	86	133	132	131	27	607	60	450	23	60	185	24	59	811	777	4	4	2	10	2	80	98	197	762	834	718	745	726	765	706	785	659	785	791	745	798	741	721	809	2.4/2.7	-1
0400	116	88	136	134	133	27	602	60	508	31	59	186	24	59	890	869	4	4	2	10	4	80	98	199	828	841	778	797	764	810	754	790	732	822	811	770	791	791	774	794	2.5/2.7	-1
0800	117	87	137	136	135	26	605	60	443	26	63	181	24	62	878	825	0	4	2	10	3	80	102	199	752	836	794	741	771	791	722	761	709	710	805	684	731	752	681	824	4/4	-2
1200	115	84	133	132	134	26	606	60	575	33	60	180	24	60	874	865	0	4	2	10	5	80	98	197	851	850	746	813	812	849	744	852	771	843	872	829	804	851	870	851	2/2	-1
1600																																										
2000	131	104	157	154	151	26	602	60	742	39	58	188	24	58	960	946	4	4	2	10	2	78	100	201	902	926	865	874	848	877	845	873	812	888	902	879	879	830	876	846	2.5/2.8	-1
Generator #2 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 642360 Fuel Consumed: 1327																																										
0000	153	106	131	129	127	27	606	60	441	24	63	181	24	62	887	829	0	4	2	9	2	78	102	199	729	837	800	735	763	779	712	765	702	711	796	688	747	761	693	822	13/12	-4
0400	147	106	132	130	128	27	606	60	528	27	62	183	24	61	919	872	0	4	2	9	4	80	102	203	815	868	838	768	833	829	835	874	823	807	858	796	826	837	802	863	1/1	-4
0800	149	104	136	134	131	27	603	60	504	22	60	185	24	60	786	750	0	4	2	10	2	80	96	197	749	801	686	726	714	735	678	730	637	734	778	706	715	714	684	743	1.8/1.8	-4
1200	150	106	131	129	127	27	607	60	552	37	61	185	24	60	945	919	0	4	2	10	1	78	102	203	848	933	840	870	845	786	823	793	754	813	732	779	815	777	767	869	3/3	-4
1600	141	120	128	126	124	27	600	60	806	38	61	183	24	61	966	932	0	4	2	9	7	78	102	203	766	831	806	778	810	803	777	818	750	768	780	724	763	794	750	836	1/1	-4
2000	152	110	138	136	134	27	607	60	746	29	60	186	24	61	935	879	0	4	2	9	4	78	104	206	930	1004	774	918	969	958	964	989	926	914	890	906	934	835	902	951	1/1	-6
Generator #3 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 775997 Fuel Consumed: 752																																										
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000	149	154	144	147	142	27	600	60	622	33	63	188	24	61	959	928	8	4	2	11	5	78	111	179	768	928	828	795	893	876	786	861	845	844	853	855	775	878	879	861	1.6/2	-2
Generator #4 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 778207 Fuel Consumed: 0																																										
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

M/V Empress of the North

Voyage Number:_____

Date: 5/6/07

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000	493	521	396	42	111	479	449	374	42	111					
0400	534	652	411	42	111	524	572	411	42	111					
0800	500	427	360	42	111	500	358	324	24	111					
1200	0	20	0	42	111	100	261	142	24	111					
1600		DOCKED				WRANGLE									
2000	729	1134	603	42	111	729	1090	568	42	111					

	Fuel Oil Tanks						Ballast Tanks			
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast
0000	15504	8340	14516	2631	549	2486	5699	250	229	26110
0400	15430	8340	14763	2552	576	2214	5683	250	231	25870
0800	15430	8340	15335	7477	594	2416	5649	250	231	26330
1200	15454	7530	15677	2332	592	2460	5607	230	229	26470
1600	15405	7530	15826	2299	595	2270	5699	230	231	27430
2000	13122	11680	13818	2414	584	2335	5712	300	231	27840

	TLI						Drive Cooling			P/W	
	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	564	673	301	31021	22506	6060		24	23		54
0400	558	686	301	31086	21866	5290		24	23		56
0800	562	620	303	31151	17242	6340		23	23		54
1200	565	620	301	31118	16224	5400		23	23		56
1600	565	680	306	31151	13977	5760		—	—	—	48
2000	550	686	311	31036	11397	6190		24	23		56

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000	50	57	76	118	17	90/91	—	OFF	—	✓	8.5	45	190	125	36	42	4
0400	42	43	88	94	17	88/90	180	20	45	✓	8.5	45	200	125	37	44	6
0800	44	46	58	207	17	88/90	180	20	45	✓	8.5	44	200	125	37	44	08
1200	44	46	57	208	17	88/90	190	25	55	✓	8.5	45	200	125	37	42	08
1600	45	47	71	147	17	88/90	190	35	65	✓	8.5	45	205	125	40	41	10
2000	49	43	57	217	17	88/90	180	20	50	✓	8.2	44	185	125	41	41	5

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200 [illegible]

1600 E. Edward Hardy

2000 E. Edward Hardy

Fuel Soundings @ 0000	
Port Storage Tank	15740
Center Storage Tank	9967
Stbd Storage Tank	15740
Today's Total	41447

Fuel Calculation	
Previous Total	44583 ~~44587~~ [illegible]
+ Qty Bunkered	
- Today's Total	41447
Today's Consumption	3136
Voyage Consumption	26149

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/7/07

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Afterclr. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
Generator #1 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 709307 Fuel Consumed: 883																																										
0000	114	84	132	131	130	27	604	60	510	25	60	188	24	59	887	865	4	4	2	10	4	80	98	197	807	834	771	794	744	793	732	776	697	785	797	945	813	762	737	800	2.5/2.7	-1
0400	112	82	129	129	127	27	605	60	471	19	60	185	24	62	761	719	4	4	3	10	1	80	98	197	696	757	657	691	693	728	675	720	618	715	761	703	722	719	687	748	2.3/2.7	-1
0800	106	77	124	124	122	27	602	60	513	24	60	185	24	61	784	757	4	4	3	10	1	80	100	197	755	816	721	738	711	741	697	754	638	737	774	716	763	722	687	758	2/2	-1
1200	127	47	150	147	145	27	603	60	429	22	60	185	24	60	784	764	0	4	3	10	2	80	102	145	747	906	684	718	701	765	685	729	619	702	756	708	659	724	649	734	2/2	-2
1600	121	95	151	149	146	26	602	60	1052	53	58	190	24	60	1027	1018	8	8	3	10	14	78	102	204	924	991	957	940	948	962	918	957	876	956	978	939	907	945	953	927	1/1.6	-2
2000	134	106	167	164	161	26	602	60	1086	55	58	190	24	60	1046	1025	8	8	3	10	14	78	104	203	977	982	951	937	949	964	915	946	883	959	984	959	908	956	962	952	1.7/1.2	-2
Generator #2 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 643404 Fuel Consumed: 1044																																										
0000	149	103	126	124	122	27	605	60	423	24	62	181	24	61	888	825	0	4	2	9	2	78	100	199	742	834	790	748	774	797	726	761	697	718	781	677	735	737	682	807	1.1/1	-5
0400	138	101	124	122	120	27	604	60	392	19	63	179	24	62	825	786	0	4	2	9	2	78	100	197	688	800	741	660	704	706	675	704	680	615	736	637	680	679	672	714	1.1/1	-5
0800	139	95	118	116	114	27	604	60	450	22	63	179	24	61	834	788	0	4	2	9	2	80	100	197	711	804	753	679	720	724	681	713	672	750	644	690	626	672	672	720	1.6/1.6	-4
1200	156	118	144	142	140	27	605	60	324	18	64	181	24	61	734	717	0	4	2	9	1	80	102	197	707	725	694	654	651	659	650	648	665	613	614	614	556	659	674	704	1/1	-6
1600	152	107	140	138	136	27	602	60	1062	51	59	188	24	60	1027	1054	0	4	2	9	12	77	105	206	932	1004	978	927	971	950	956	996	927	918	983	904	945	963	979	984	1.7/1.6	0
2000	148	112	146	145	142	27	604	60	1060	51	59	188	24	59	1081	1058	0	4	2	9	12	77	105	208	938	1007	941	922	978	960	962	999	933	918	987	908	957	965	939	992	1.2/1.1	-2
Generator #3 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 776238 Fuel Consumed: 241																																										
0000																																										
0400																																										
0800																																										
1200	142	141	123	124	121	27	603	60	284	26	65	185	24	63	741	675	4	4	2	10	1	78	104	181	645	684	628	623	625	701	632	701	608	677	702	691	646	771	650	632	2/2	-2
1600	150	146	138	140	136	27	604	60	925	46	62	188	24	60	1032	1004	8	8	2	11	10	77	113	186	882	982	913	910	1013	928	914	924	945	934	925	973	857	949	905	956	1.3/1.8	-2
2000	156	154	150	152	147	27	603	60	904	48	62	190	24	60	1040	1009	8	8	2	11	10	77	114	186	891	995	902	916	1001	944	976	929	957	956	920	921	865	963	909	988	1.2/1.7	-2
Generator #4 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 778256 Fuel Consumed: 49																																										
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

M/V Empress of the North

Voyage Number:_____

Date:_____

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor					Fuel Oil Tanks						Ballast Tanks				TLI						Drive Cooling			P/W	
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	364	375	298	42	111	357	360	278	42	111						8295	21540 ~~24144~~	8317	2611	593	2572	5753	280	231	28490	589	659	309	31280	8168	6000		25	24		53
0400	429	451	347	42	111	417	393	320	42	111						4132	29360	4439	2509	594	2845	5699	230	231	28820	562	683	309	31118	7383	4150		25	23		54
0800	0	23	01	42	111	0	15	43	42	111						2166	33510	3271	2335	584	2155	5623	250	229	30410	565	626	303	31157	4478	5300		25	24		55
1200																																				
1600	894	1638	716	42	111	908	1701	709	42	111						1403	33670	817	2611	564	2470	5737	280	229	29190	562	683	309	30891	12896	6820		24	23		60
2000	890	1644	693	42	111	902	1654	708	42	111						1403	33630	732	2368	570	2240	5737	280	231	28450	565	676	311	30924	11513	6920		24	23		61

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000	44	46	64	184	18	88/90	185	30	60	✓	8.5	43	190	125	36	40	6
0400	42	43	57	207	18	88/90	180	20	50	✓	8.5	42	200	125	37	44	5
0800	44	46	77	75	19	89/90	OFF	L	inc		8.5	35	200	125	37	42	6
1200																	
1600		off					180	18	48	✓	8	43	180	125	39	41	8
2000							180	30	60	✓	8	43	195	125	39	40	6

Remarks:

Watch stander's Signature:

0000 [signature]

0400 [signature]

0800 [signature]

1200 [signature]

1600 [signature]

2000 [signature]

Fuel Soundings @ 0000	
Port Storage Tank	1996
Center Storage Tank	34647
Stbd Storage Tank	1696
Today's Total	38339

Fuel Calculation	
Previous Total	41447
+ Qty Bunkered	
- Today's Total	38339
Today's Consumption	3108
Voyage Consumption	29257

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/8/07

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
Generator #1 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 710267 Fuel Consumed: 960																																											
0000	136	108	163	166	163	27	602	60	1021	52	58	188	24	61	1025	1018	8	8	4	10	12	78	102	203	977	992	946	932	945	962	920	946	880	952	970	923	901	937	959	921	1.9/1.4	-1
0400	128	103	150	148	145	27	603	60	620	26	59	186	24	58	854	820	4	4	3	10	4	80	98	197	794	829	748	783	744	803	726	781	715	800	812	754	795	794	782	795	1.6/2.1	-1
0800	113	82	131	130	124	27	605	60	580	24	60	185	24	62	780	746	4	4	3	10	2	80	98	197	746	824	711	727	717	752	693	758	638	735	778	721	763	722	783	749	2/2	-1
1200																																											
1600																																											
2000	132	105	164	161	159	26	604	60	1098	53	58	190	24	61	1025	1013	8	8	4	10	11	77	100	203	984	1003	964	954	953	968	932	969	909	956	988	934	910	956	958	923	1/1.9	-4
Generator #2 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 644441 Fuel Consumed: 1037																																											
0000	148	111	145	143	141	27	603	60	998	47	59	186	24	60	1069	1043	0	4	2	9	11	77	104	206	930	991	970	907	957	940	934	968	903	911	964	880	910	941	915	988	1.5/.4	-2
0400	135	105	129	127	125	27	601	60	525	28	62	181	24	61	905	842	0	4	2	9	3	78	100	201	748	824	802	783	800	805	741	787	715	749	780	698	746	759	702	818	2/0	-2
0800	124	100	123	122	120	27	605	60	440	21	63	179	24	63	788	755	0	4	2	8	1	80	100	197	665	713	631	673	664	668	690	680	604	727	630	643	630	643	643	647	2/2	-2
1200																																											
1600	139	108	132	130	128	27	602	60	465	36	62	183	24	62	935	896	0	4	2	9	4	78	104	201	741	856	821	867	819	821	785	832	786	809	827	790	828	838	808	883	.1/.1	-2
2000	154	111	146	143	141	27	603	60	1066	52	60	186	24	59	1070	1049	8	4	2	9	12	78	105	204	905	988	953	900	947	917	910	947	882	896	969	893	932	957	925	990	.4/.5	-2
Generator #3 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 776703 Fuel Consumed: 465																																											
0000	148	153	152	155	150	27	603	60	880	43	62	188	24	60	1025	986	8	8	2	10	9	77	113	183	870	1022	840	894	975	936	897	926	954	941	906	913	857	961	901	946	1.2/1.6	-2
0400																																											
0800																																											
1200																																											
1600																																											
2000	160	152	147	150	146	27	602	60	912	48	62	188	24	60	1038	1014	12	8	2	11	11	77	114	181	884	998	898	914	945	988	912	924	949	920	917	920	869	966	919	946	1.3/1.5	-2
Generator #4 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 778256 Fuel Consumed: 0																																											
0000																																											
0400																																											
0800																																											
1200																																											
1600																																											
2000																																											

Empress of the North

Voyage Number:_____

Date: 5/8/07

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000	889	1638	708	42	111	899	1640	706	42	111					
0400	483	507	384	42	111	507	549	394	42	111					
0800	320	204	237	42	111	320	162	216	42	111					
1200															
1600	DOCKED				SITK										
2000	578	1629	711	42	111	907	1669	712	42	111					

	Fuel Oil Tanks						Ballast Tanks			
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast
0000	314	33670	213	2404	591	2316	5737	340	231	28370
0400	305	33490	230	2000	599	1927	5737	280	231	28860
0800	173	31820	177	2745	586	2659	5683	750	231	28000
1200										
1600	1930	31860	2130	3529	551	2434	5707	250	231	28040
2000	1812	31940	2318	3204	558	2112	5714	300	231	28250

	TLI						Drive Cooling			P/W	
	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	565	662	309	31151	8488	7580		24	23		61
0400	573	662	317	31021	6888	5530		25	24		60
0800	565	680	311	31015	442	7150		25	24		60
1200											
1600	565	680	303	31151	5173	5900					52
2000	556	704	309	30891	2698	7250		24	24		59

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000	—	OFF		—	18	93/95	185	30	60	✓	8.5	43	180	125	35	42	5
0400	—	OFF		—	18	92/94	180	20	45	✓	8.5	44	190	125	36	42	5
0800		OFF						OFF					200	125	36	44	08
1200																	
1600	—	OFF		—			180	18	50	✓	8.5	45	190	125	40	42	6
2000		OFF			12	88/94	188	30	55	✓	8	42	205	125	40	41	6

Remarks:

Watch stander's Signature:

0000 NT

0400 NT

0800 [illegible]

1200 [illegible]

1600 J. Edward Hardy

2000 J. Edward Hardy

Fuel Soundings @ 0000	
Port Storage Tank	398
Center Storage Tank	35096
Stbd Storage Tank	383
Today's Total	35877

Fuel Calculation	
Previous Total	38339
+ Qty Bunkered	
- Today's Total	35877 ~~2462~~ NT
Today's Consumption	2462
Voyage Consumption	31719

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/9/07

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
Generator #1 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 711195 Fuel Consumed: 928																																										
0000	136	109	168	165	163	26	602	60	1040	50	58	190	24	60	1025	1014	8	8	4	10	12	78	102	203	976	994	940	937	933	949	910	935	893	950	969	912	912	938	952	923	1/1.4	-1
0400	136	108	168	165	162	27	605	60	1011	50	58	190	24	60	1023	1014	8	8	4	10	12	78	102	203	977	987	942	937	943	958	918	948	885	952	976	920	905	935	954	919	1/1.4	-1
0800	132	106	160	158	155	27	605	60	515	20	60	185	24	60	750	719	0	4	2	10	0	80	100	197	750	823	715	742	671	684	703	750	672	760	801	738	775	749	75	798	2/2	-2
1200	134	109	165	162	160	27	602	60	1037	52	58	190	24	60	1023	1014	8	8	3	10	11	78	102	203	972	987	936	934	938	950	915	946	885	953	960	914	911	933	947	923	1.6/1.6	-2
1600	132	105	163	160	158	27	602	60	996	51	58	190	24	60	1023	1014	8	8	4	10	12	78	102	203	967	987	939	942	929	944	906	940	887	948	967	924	912	934	952	925	1.1/1.6	-2
2000	133	108	156	153	151	27	605	60	394	18	60	185	24	59	719	709	0	0	3	10	0	80	100	197	710	747	651	656	694	718	695	650	571	625	730	676	541	667	678	662	1.9/2	-2
Generator #2 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 645597 Fuel Consumed: 1156																																										
0000	154	113	146	143	142	27	603	60	997	48	59	186	24	60	1061	1031	0	4	2	9	11	78	105	208	942	1003	970	910	958	946	948	990	901	918	992	890	922	947	927	987	1/1	-2
0400	151	112	145	143	141	27	604	60	985	50	59	186	24	59	1067	1043	0	4	2	9	11	77	105	206	933	1000	966	909	958	945	958	968	903	915	961	883	907	940	919	976	4/13	-2
0800	138	108	136	135	133	27	606	60	381	18	63	185	24	62	748	732	0	4	2	8	0	78	103	197	680	700	660	633	634	650	684	687	697	618	641	610	657	678	628	691	4/8	-2
1200	145	110	143	141	139	27	604	60	1004	51	60	186	24	59	1059	1044	0	4	2	9	11	77	105	206	937	999	966	911	961	947	960	907	917	985	888	911	940	920	921	985	4/9	-2
1600	154	108	141	139	137	27	604	60	979	50	59	186	24	60	1070	1047	0	4	2	9	12	78	105	206	933	998	974	913	962	945	953	946	953	976	911	918	988	888	915	945	1/11	-2
2000	147	110	133	131	129	27	604	60	274	51	58	190	24	60	1023	1014	8	8	4	10	12	78	102	203	967	987	939	942	929	944	906	940	987	948	967	924	912	934	952	945	1/11	-2
Generator #3 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 777370 Fuel Consumed: 667																																										
0000	159	155	151	154	150	27	604	60	849	44	62	188	24	60	1032	986	8	8	2	11	9	77	114	186	877	1022	849	898	984	938	898	920	949	947	896	913	855	965	880	925	1.2/1.5	-2
0400	153	153	151	154	150	27	604	60	860	44	62	188	24	59	1027	989	8	8	2	11	8	77	113	186	872	1026	841	896	974	938	890	925	946	944	905	905	857	963	873	930	1.4/1.5	-3
0800	148	152	146	149	144	27	605	60	342	18	65	185	24	62	831	757	4	4	3	10	1	78	107	176	683	766	714	694	755	668	671	730	655	712	714	722	714	781	782	809	1.8/1.8	-3
1200	150	153	151	154	149	27	604	60	864	44	62	188	24	59	1025	989	8	8	3	10	8	78	113	179	903	1024	856	908	943	931	921	933	948	947	910	911	862	963	878	934	1.9/2	-3
1600	148	151	149	152	147	27	603	60	853	44	62	188	24	60	1029	987	8	4	3	10	10	77	113	185	819	996	898	916	986	935	908	941	951	950	904	908	862	966	891	937	1.9/1.7	-2
2000	117	153	143	142	142	27	602	60	232	22	65	185	24	62	768	703	4	4	3	10	0	78	107	179	629	771	658	650	690	723	654	778	646	770	779	735	654	78	650	736	1.7/1.7	-3
Generator #4 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 778256 Fuel Consumed: 0																																										
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

M/V Empress of the North

Voyage Number:_____

Date:_____

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000	884	1610	713	42	111	897	1665	705	42	111					
0400	875	1629	703	42	111	901	1621	704	42	111					
0800	100	43	87	42	111	100	193	127	42	111					
1200	880	1636	719	42	111	880	1515	681	42	111					
1600	875	1621	714	42	111	904	1655	709	42	111					
2000	638	952	509	42	111	634	840	490	42	111					

	Fuel Oil Tanks						Ballast Tanks			
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast
0000	463	32150	2150	2260	586	2312	5761	420	231	27920
0400	459	32150	2352	1887	587	1899	5745	320	231	28290
0800	274	31320	472	2650	587	2372	5683	170	231	28530
1200	301	31640	446	2273	524	2310	5753	360	231	28040
1600	173	30460	243	2703	581	2050	5768	400	231	28490
2000	173	30460	270	2309	583	2240	5761	380	231	28450

	TLI						Drive Cooling			P/W	
	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	573	669	309	30406	649	7220		24	23		62
0400	573	669	314	29529	649	5900		24	24		63
0800	562	680	304	26530	544	8780		24	24		64
1200	568	673	301	24620	714	10400		24	24		68
1600	573	669	301	22735	754	12320		25	24		64
2000	565	669	307	20641	684	14340		25	24		65

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000		OFF			17	92/94	180	22	50	✓	8.5	45	185	125	37	44	6
0400		OFF			17	92/94	180	20	45	✓	8.5	44	200	125	36	43	5
0800			OFF		Line				OFF	Line			185	125	36	42	06
1200							180	20	50	✓	8.5	44	200	125	36	42	08
1600		OFF			17	88/89	180	20	50	✓	8.3	46	195	125	40	41	10
2000		OFF			17	92/90	180	18	45	✓	8.5	42	185	125	41	42	8

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200 [illegible]

1600 J Edward Chaney

2000 J Edward Chaney

Fuel Soundings @ 0000	
Port Storage Tank	0
Center Storage Tank	33210
Stbd Storage Tank	1771
Today's Total	34981

Fuel Calculation	
Previous Total	35877
+ Qty Bunkered	3000
- Today's Total	34981
Today's Consumption	3896
Voyage Consumption	35615

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/10/07

Generator #1 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 712642 Fuel Consumed: 1447

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	136	109	168	165	163	27	602	60	1035	53	58	190	24	60	1022	1016	8	8	4	10	12	78	102	204	978	992	956	945	959	965	931	950	885	954	982	944	908	944	964	924	1/1.4	-1
0400	138	111	170	167	165	27	603	60	979	52	58	192	24	60	1027	1014	8	8	4	10	12	78	102	204	979	984	942	939	939	949	913	943	890	946	969	922	914	928	946	928	1/1.4	-1
0800																																										
1200																																										
1600																																										
2000	130	106	165	162	160	26	604	60	1016	55	58	188	24	60	1013	1002	8	8	5	10	13	77	98	204	952	984	944	942	939	946	928	933	875	946	966	916	904	910	937	929	1/1.5	-2

Generator #2 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 646976 Fuel Consumed: 1379

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	143	113	145	143	141	27	604	60	1009	49	59	186	24	60	1079	1050	0	4	2	9	11	77	105	206	938	1004	971	914	964	949	961	978	920	917	990	894	919	936	929	996	0/.1	-3
0400	145	115	147	145	143 ~~147~~	~~27~~	604	60	953	50	59	188	24	60	1077	1049	0	4	2	9	11	78	105	208	933	1008	973	916	964	948	965	979	925	918	993	902	928	941	926	1002	.1/.2	-3
0800	149	114	134	137	135	27	603	60	544	28	61	183	24	62	953	942	0	4	2	9	4	80	105	203	825	882	853	823	846	852	801	848	779	810	814	772	810	801	783	888	.1/.2	-2
1200	150	108	132	133	131	27	603	60	541	26	62	181	24	62	915	861	0	4	2	9	5	80	102	201	814	849	850	800	860	837	841	868	817	791	847	893	744	640	745	856	.2/.2	-3
1600	145	108	133	131	129	27	602	60	683	28	62	183	24	62	912	870	0	4	2	9	4	78	102	203	812	836	834	777	818	817	812	821	853	801	865	795	750	773	—	784	.3/.3	-2
2000	145	113	146	144	142	27	604	60	1019	52	59	188	24	59	1079	1054	0	4	2	9	12	77	105	208	928	1078	999	932	985	958	964	1002	931	918	988	910	943	—	801	988	.6/.4	-2

Generator #3 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 778663 Fuel Consumed: 1293

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	126	155	154	156	152	27	603	60	872	44	62	188	24	60	1036	991	8	8	3	10	9	77	113	216	883	1027	862	898	979	935	903	933	955	948	889	914	864	963	888	931	1.4/1.6	-3
0400	118	157	155	158	154	27	604	60	846	45	62	188	24	60	1040	998	8	8	3	10	8	77	113		885	1017	890	918	996	944	912	946	945	963	908	926	860	970	904	960	1.4/1.7	-3
0800																																										
1200																																										
1600																																										
2000	95	95	104	103	102	27	604	60	828	46	62	188	24	59	1049	1011	8	8	4	11	9	77	111	185	886	1024	869	921	966	941	920	942	958	961	905	932	863	954	941	942	.8/1.7	-4

Generator #4 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 778256 Fuel Consumed: 0

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

M/V Empress of the North

Voyage Number:_____

Date: 5/10/07

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000	875	1623	712	42	111	897	1620	704	42	111	406	0	294	60	72
0400	875	1615	709	42	111	899	1644	711	42	111	413	0	296	60	72
0800															
1200															
1600															
2000	889	1675	710	42	111	892	1624	707	42	111					

	Fuel Oil Tanks						Ballast Tanks			
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast
0000	169	29470	265	2044	591	2532	5784	420	231	28160
0400	173	29510	265	1707	583	2208	5776	420	231	28530
0800	164	27280	239	2631	575	2640	5714	340	231	28460
1200	169	27280	230	2530	600	2585	5745	340	224	28410
1600										
2000	164	26780	182	2402	514	2309	5761	460	231	27710

	TLI						Drive Cooling			P/W	
	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	571	669	301	17205	754	11560		25	24		64
0400	570	676	301	16551	754	8810		25	24		65
0800	570	680	304	12723	10583	8880					61
1200	570	680	311	11055	24449	7420					60
1600											
2000	573	669	309	23749	28002	13050		25	24		69

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000			OFF				185	30	58	✓	8.5	43	190	125	38	41	8
0400			OFF				180	30	50	✓	8	44	200	125	35	43	10
0800			OFF				180	30	50	✓	8	44	200	125	35	43	08
1200			OFF				180	30	50	✓	8.5	44	200	125	-		
1600			OFF					0	FF	✓	8.5	45	205	125	41	42	10
2000			OFF				190	30	55	✓	8	44	195	125	40	40	8

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200 [illegible]

1600 J. Edward [illegible]

2000 J. Edward [illegible]

Fuel Soundings @ 0000	
Port Storage Tank	106
Center Storage Tank	38338
Stbd Storage Tank	221
Today's Total	30665

Fuel Calculation	
Previous Total	34981
+ Qty Bunkered	
- Today's Total	30665
Today's Consumption	4316
Voyage Consumption	39931

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/11/09

Generator #1 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 713574 Fuel Consumed: 932

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Afterclr. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	133	111	168	165	164	26	605	60	1064	48	58	190	24	59	995	991	8	8	4	10	11	77	98	203	926	959	922	920	890	920	895	921	876	918	947	883	897	909	910	900	.9/1.6	-1
0400	132	109	167	164	162	26	605	60	976	~~959~~ 50	58	188	24	59	1007	1004	8	8	5	10	13	78	100	203	959	989	938	924	932	936	908	923	870	928	953	889	894	918	939	901	1/1.6	-2
0800	129	101	159	157	155	26	604	60	1107	53	58	190	24	55	1022	1007	8	8	5	10	14	78	100	203	946	987	944	934	937	951	931	940	885	946	947	927	897	934	941	921	1.3/1.3	-2
1200	127	105	156	153	151	26	601	60	733	20	60	185	24	61	766	734	0	4	5	10	1	80	98	197	710	765	663	693	702	732	667	654	598	667	725	678	601	626	667	680	2/2	-2
1600	121	99	153	150	148	26	604	60	1120	46	59	188	24	55	928	960	8	8	5	10	14	78	100	199	925	937	893	893	879	907	850	900	867	901	915	860	864	908	906	894	1.3/2.8	-2
2000																																										

Generator #2 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 648207 Fuel Consumed: 1231

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Afterclr. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	140	113	146	144	142	27	604	60	1045	48	59	186	24	60	1058	1025	0	4	3	9	10	78	104	206	932	992	964	908	957	946	949	972	915	912	982	890	919	—	940	995	0/0	-2
0400	149	112	144	142	140	29	603	60	943	51	59	186	24	59	1068	1040	0	8	2	9	11	77	104	206	928	997	961	907	956	951	971	972	911	914	973	876	903	—	916	983	0/0	-2
0800	141	108	141	134	137	27	603	60	1042	51	59	186	24	59	1074	1056	0	8	3	9	12	78	107	206	927	1009	986	922	974	962	997	933	913	987	901	938	900	927	927	992	2/2	-2
1200	138	106	136	134	131	27	600	60	780	20	63	181	24	62	861	809	0	4	3	9	2	78	102	199	716	850	796	720	752	769	707	741	695	680	601	671	730	727	800	729	2/2	-2
1600	128	103	133	132	130	27	603	60	1115	36	61	185	24	61	927	915	0	4	3	9	8	80	102	203	851	933	875	868	868	882	862	901	844	820	882	852	836	841	805	902	1.3/1.8	-2
2000																																										

Generator #3 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 779479 Fuel Consumed: 816

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Afterclr. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	152	157	159	162	157	27	603	60	905	46	62	188	24	60	1047	1002	8	8	4	10	9	77	109		891	1037	882	920	1002	933	907	938	952	958	902	921	869	911	898	945	1.4/1.7	-3
0400	131	155	158	160	155	29	603	60	808	44	62	188	24	59	1040	995	8	8	4	10	9	77	109		884	1042	856	912	994	943	903	939	956	963	911	929	863	927	916	969	1.4/1.6	-3
0800	112	152	151	153	147	27	604	60	928	47	62	190	24	59	1056	1016	8	8	4	10	10	77	109	186	894	999	901	921	996	948	933	945	986	912	910	930	865	915	914	916	2/2	-3
1200	109	152	148	150	145	27	602	60	659	18	65	185	24	62	735	674	4	4	4	10	2	80	106	170	710	796	740	727	797	808	707	814	704	772	792	724	697	706	695	820	2/2	-3
1600	103	146	144	146	141	27	603	60	848	45	62	188	24	59	1047	1004	8	8	4	10	10	78	109	179	906	994	920	920	1004	936	896	935	941	950	888	924	900	913	901	930	2.2/2	-4
2000																																										

Generator #4 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Afterclr. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																											
0400																																											
0800																																											
1200																																											
1600																																											
2000																																											

M/V Empress of the North

Voyage Number:_____

Date:_____

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000	880	1643	702	42	111	899	1628	708	42	111					
0400	878	1631	711	42	111	897	1645	711	42	111					
0800	880	1636	708	42	111	900	1723	712	42	111					
1200	740	1164	592	42	111	600	926	671	42	111					
1600	884	1654	686	42	111	911	1731	708	42	111					
2000															

	Fuel Oil Tanks						Ballast Tanks			
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast
0000	169	25750	204	2388	556	2372	5763	420	231	28000
0400	169	25750	177	2020	565	1997	5776	400	231	28200
0800	169	23840	244	2663	566	2565	5776	400	224	29000
1200	164	23400	239	2257	550	2148	5715	340	274	28410
1600	164	23810	402	2073	571	2074	5776	340	231	29720
2000										

	TLI						Drive Cooling			P/W	
	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	570	680	306	20608	28007	5600		24	23		69
0400	573	669	301	20019	28007	6130		25	24		70
0800	571	676	301	16367	28009	4710		25	24		67
1200	568	623	314	14064	28007	12250		25	24		72
1600	570	623	301	13352	28007	10860		25	24		70
2000											

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000	—	—	OFF	—	—	—	180	20	50	✓	8	45	200	125	37	43	8
0400	—	—	OFF	—	—	—	180	15	35	✓	8.5	43	200	125	36	44	10
0800	—	—	OFF	—	—	—	—	OFF		—			200	125	36	42	12
1200							180	20	50	✓	85	42	200	125			
1600			OFF				—	OFF		✓	8	43	195	125	41	41	6
2000																	

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200 [illegible]

1600 [illegible]

2000

Fuel Soundings @ 0000	
Port Storage Tank	106
Center Storage Tank	26927
Stbd Storage Tank	221
Today's Total	27254

Fuel Calculation	
Previous Total	30665
+ Qty Bunkered	
- Today's Total	27254
Today's Consumption	3411
Voyage Consumption	43342

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/12/07

Generator #1 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 714752 Fuel Consumed: 1128

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000	133	109	157	155	153	26	604	60	578	31	60	186	24	56	888	874	4	4	5	10	5	80	98	197	852	855	792	800	806	836	799	842	778	814	840	810	813	801	834	824	2.8/1.8	-2

Generator #2 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 649439 Fuel Consumed: 1232

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	146	110	134	132	130	27	602	60	450	26	62	181	24	61	919	852	0	4	3	9	2	80	104	201	760	846	797	794	811	823	767	817	757	785	789	742	780	810	761	855	1/1.1	0
0400	144	106	130	128	126	27	602	60	725	28	62	185	24	61	941	901	0	4	4	9	5	80	104	203	833	926	856	825	872	862	837	885	840	838	902	818	823	883	856	941	.7/1.2	0
0800	156	105	131	129	126	27	602	60	583	27	62	183	24	61	908	849	0	4	4	9	4	78	104	203	860	851	812	808	820	822	783	821	773	793	802	758	781	783	794	881	1.3/1.3	-0
1200																																										
1600	152	113	138	136	134	27	602	60	535	34	61	185	24	61	1000	960	0	4	4	9	6	78	104	203	856	926	870	817	855	844	841	865	827	818	841	776	795	831	809	863	1.6/1.6	0
2000	161	124	149	147	145	27	604	60	577	34	61	185	24	61	966	930	0	4	3	9	5	78	104	203	856	946	870	811	860	858	851	893	815	875	884	817	834	851	828	926	1.5/1.5	-2

Generator #3 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 780539 Fuel Consumed: 1060

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

Generator #4 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 778677 Fuel Consumed: 421

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

M/V Empress of the North

Voyage Number:_____

Date: 5/12/07

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000															
0400															
0800															
1200															
1600															
2000	500	796	432	42	111	510	600	376	42	111	-	-	-	-	-

	Fuel Oil Tanks						Ballast Tanks			
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast
0000	169	21210	142	2611	601	2604	5714	300	231	27710
0400	169	21210	208	2503	609	2506	5722	320 ~~6.4ft~~	231	28000
0800	164	21280	213	2385	588	2401	5745	380	231	27840
1200										
1600	169	21210	252	2253	560	2267	5722	280	231	28450
2000	169	21330	265	1970	532	2027	5761	360	229	28610

	TLI						Drive Cooling			P/W	
	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	571	669	309	30535	28007	3920					
0400	593	669	311	28783	28007	4220					
0800	573	669	311	25974	28007	6190					
1200											
1600	571	673	309	30729	28007	8810	-	-	-	-	-
2000	571	669	306	28035	28007	9670	-	24	24	-	-

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000	—		OFF	—			—	OFF	—	✓	8.5	46	200	125	37	43	8
0400	—	—	OFF	—	—		180	30	60	✓	8.5	46	190	125	36	43	6
0800							180	15	45	✓	8.5	46	200	125	36	42	08
1200																	
1600	-	-	-	-	-	-	180	30	60	✓	8.5	45	200	128	34	43	8
2000	-	-	-	-	-	-	190	35	65	✓	8.2	45	190	125	35	44	6

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200 [illegible]

1600 [illegible]

2000 [illegible]

Fuel Soundings @ 0000	
Port Storage Tank	106
Center Storage Tank	22797
Stbd Storage Tank	221
Today's Total	23124

Fuel Calculation	
Previous Total	27254
+ Qty Bunkered	
- Today's Total	22797
Today's Consumption	4130
Voyage Consumption	47472

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/13/07

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Afterclr. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
Generator #1 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 715034 Fuel Consumed: 287																																										
0000	138	114	172	169	167	26	604	60	490	51	58~~84~~	190	24	56	455	478	8	8	5	10	11	78	98	203	926	950	931	930	884	927	900	916	861	920	953	882	883	900	908	913	2/2	-2
0400	127	100	149	147	146	26	608	60	573	23	60	185	24	59	798	771	4	4	5	10	2	80	96	197	730	745	693	735	715	747	690	727	646	720	790	712	751	720	693	763	2/2	-2
0800																																										
1200																																										
1600																																										
2000	133	111	158	156	154	26	601	60	498	18	60	186	24	60	725	699	4	0	6	10	1	82	98	197	697	734	650	667	681	715	659	670	570	647	725	676	568	675	670	673	2.1/2.1	-1
Generator #2 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 650404 Fuel Consumed: 485																																										
0000	160	124	156	154	152	27	604	60	1000	44	59	188	24	59	~~1074~~ ~~186~~	~~1058~~ ~~24~~	~~0~~ ~~59~~	~~4~~ ~~1074~~	~~9~~ ~~1050~~	~~9~~ ~~6~~	~~19~~ ~~7~~	~~77~~ ~~4~~	~~107~~ ~~4CP~~	~~208~~	981	1010	946	922	973	963	877	983	921	921	1001	903	921	945	929	1004	2/2	-2
0400	154	113	138	136	134	27	608	60	513	23	63	181	24	61	844	801	0	4	4	9	2	80	102	199	709	843	791	703	751	752	700	750	647	705	792	681	734	747	668	820	1.2/2	-2
0800	158	116	141	138	136	27	602	60	552	33	61	185	24	61	930	885	0	4	4	9	3	78	104	203	799	872	839	798	837	831	796	883	792	795	779	813	768	852	804	757	1.2/1.2	-2
1200	158	114	139	135	137	27	602	60	658	33	61	185	24	61	937	908	0	4	5	9	3	78	104	203	777	855	829	806	833	830	786	831	813	806	818	771	820	846	812	878	1.2/1.2	0
1600	150	113	138	136	134	27	603	60	627	33	61	185	24	61	962	921	0	4	4	9	5	78	104	203	841	934	860	813	862	856	833	888	828	805	856	780	793	821	775	867	1.2/1.6	0
2000	152	120	143	141	139	27	603	60	486	33	62	181	24	61	959	917	0	4	5	9	4	78	104	203	854	910	871	803	839	843	849	868	832	828	855	797	802	855	825	864	1.2/1.2	-2
Generator #3 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000: 780745 Fuel Consumed: 206																																										
0000	164	154	154	161	156	27	603	60	867	50	62	188	24	54	1052	1000	8	8	5	7	11	80	109	185	884	1028	878	919	981	945	916	948	965	910	900	930	863	915	915	910	2/2	-3
0400																																										
0800																																										
1200																																										
1600																																										
2000	168	155	150	152	148	27	602	60	423	19	65	185	24	62	744	669	4	4	5	10	0	78	104	185	667	720	672	656	694	732	649	722	652	715	714	740	649	805	661	760	2/2	-2
Generator #4 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____																																										
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

M/V Empress of the North

Voyage Number:_____

Date: 5/13/07

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000	~~1400 136~~	~~1625 114~~	~~644 172~~	~~42 169~~	~~111 167~~ 110	900 2	1616	706	42	111					
0400	320	301	266	42	111	320	247	265	42	111					
0800															
1200															
1600															
2000	900	1657	694	42	111	900	1728	708	42	111					

	Fuel Oil Tanks						Ballast Tanks			
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast
0000	164	19976	327	2200	570	2236	5716	420	231	28490
0400	169	19450	331	1880	571	1840	5745	340	231	28500
0800	169	19020	301	2083	558	2080	5722	340	231	2830
1200	169	17620	305	2781	556	2768	5737	340	231	28450
1600	164	17580	305	2680	555	2670	5745	320	229	28530
2000	164	17850	323	2404	573	2332	5807	500	231	28660

	TLI						Drive Cooling			P/W	
	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	574	662	290	22484	28007	4290		24	24		69
0400	571	666	301	27856	28007	9120		24	24		69
0800	573	669	311	29168	28007	4250					73
1200	573	669	311	28394	28007	4090					73
1600	573	669	311	27905	28007	3990					77
2000	594	652	301	26263	28007	3990		24	24		70

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000							180	20	50	✓	8.5	44	200	125	36	44	04
0400							180	20	50	✓	8.5	44	200	125	36	44	04
0800							180	18	49	✓	8.5	45	190	120	36	44	04
1200							180	18	46	✓	7.0	45	260	125	36	44	04
1600							180	15	45	✓	8.5	45	190	125	36	44	6
2000							180	20	50	✓	8.5	45	200	125	36	44	6

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200 [illegible]

1600 [illegible]

2000 [illegible]

Fuel Soundings @ 0000	
Port Storage Tank	106
Center Storage Tank	21002
Stbd Storage Tank	221
Today's Total	21329

Fuel Calculation	
Previous Total	23124
+ Qty Bunkered	
- Today's Total	21329
Today's Consumption	1795
Voyage Consumption	1795

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 9/14/07

Generator #1

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																											
0400																																											
0800	123	94	147	146	144	27	605	60	793	40	59	188	24	56	930	924	4	8	5	10	8	78	98	201	915	916	876	858	852	856	847	872	835	893	902	856	800	864	876	826	1.7/1.7	-1
1200																																											
1600																																											
2000																																											

Generator #2

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																											
0400																																											
0800	140	117	145	143	141	29	605	60	776	39	60	185	24	60	1020	986	0	4	4	9	7	78	105	204	902	990	914	873	911	927	909	926	899	861	931	837	857	903	876	960	1/1	-4
1200	137	115	138	135	133	28	601	60	387	23	62	181	24	61	901	845	0	4	4	9	3	80	104	201	773	858	826	811	831	831	763	808	736	955	790	696	756	754	690	826	1.3/1.3	-2
1600	116	114	137	135	133	28	601	60	345	23	63	181	24	61	824	791	0	4	4	9	1	79	104	199	703	693	798	655	712	707	706	815	705	642	764	647	621	641	710	781	1.3/1.3	-2
2000	130	114	137	135	133	28	601	60	348	24	65	181	24	61	887	892	0	4	5	9	3	80	104	199	791	854	817	784	806	824	742	778	722	736	739	687	785	745	681	804	1.3/1.3	-2

Generator #3

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																											
0400																																											
0800																																											
1200																																											
1600																																											
2000																																											

Generator #4

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																											
0400																																											
0800																																											
1200																																											
1600																																											
2000																																											

M/V Empress of the North

Voyage Number:_____

Date: 9/14/07

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000															
0400															
0800															
1200															
1600															
2000															

	Fuel Oil Tanks						Ballast Tanks			
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast
0000										
0400										
0800				1987	576	1548	4082	7390	3685	100
1200				1890	559	1468	4067	7360	4067	100
1600				2185	535	1844	4062	6940	4604	100
2000				2162	535	1837	4094	6940	4757	100

	TLI						Drive Cooling			P/W	
	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000											
0400											
0800	558	693	306					25	24		68
1200	556	693	309								68
1600	554	686	317	–	–	–					77
2000	554	690	317	154	141						77

	AC Chiller Unit #_____						Refrigeration Unit #__1__						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000																	
0400																	
0800							180	15	45	✓	8.5	46	180	125	36	44	6
1200							180	15	45	✓	8.5	47	200	125	36	44	6
1600							180	35	55	✓	8.5	49	200	125	35	42	4
2000							180	35	55	✓	8.5	49	200	125	35	42	4

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200 [illegible]

1600 [illegible]

2000 [illegible]

After List change

Fuel Soundings @ 0000	
Port Storage Tank	106
Center Storage Tank	12744
Stbd Storage Tank	221
Today's Total	13071

Fuel Calculation	
Previous Total	21002
+ Qty Bunkered	
- Today's Total	~~13744~~ 13071 cp
Today's Consumption	7931
Voyage Consumption	9726

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 9/15/07

Generator #1

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

Generator #2

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	125	112	135	133	131	28	601	60	497	25	62	183	24	61	915	851	0	4	5	9	2	80	104	201	972	852	824	801	818	827	858	798	738	757	783	791	756	777	710	834	1.5/1.5	0
0400	106	108	131	129	127	28	601	60	373	26	62	181	24	61	912	854	0	4	5	9	4	80	104	199	816	870	846	786	816	823	791	825	763	777	785	719	759	780	715	827	1.5/1.5	0
0800	100	107	129	127	125	29	602	60	467	23	62	181	24	61	851	792	0	4	5	9	1	78	102	201	710	854	800	722	756	763	726	766	722	738	787	704	760	787	733	837	1/1	0
1200	152	110	132	130	129	28	601	60	373	21	63	181	24	61	806	786	0	4	4	9	2	80	104	199	776	850	822	780	811	818	750	785	714	710	796	669	747	721	677	797	1.1/1.1	0
1600	153	113	136	134	132	28	601	60	381	23	63	181	24	61	899	849	0	4	5	9	3	82	104	199	791	866	840	803	824	834	783	825	769	777	789	732	771	800	740	844	1.6/1.6	0
2000	157	113	136	134	132	28	601	60	394	20	62	181	24	62	811	788	0	4	4	9	1	80	104	199	712	838	801	694	752	765	710	754	704	688	815	672	748	731	678	823	1.6/1.6	0

Generator #3

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

Generator #4

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

M/V Empress of the North

Voyage Number:_____

Date: 5/15/07

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor				
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts
0000															
0400															
0800															
1200															
1600															
2000															

	Fuel Oil Tanks						Ballast Tanks				TLI						Drive Cooling			P/W	
	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000	–	–	–	2060	543	1784	4082	6940	5107	100	562	690	317	159	141	–	–	–	–	–	77
0400	–	–	–	1770	568	1907	4111	7070	5582	100	577	669	320	159	141	–	–	–	–	–	75
0800	–	–	–	1817	556	1694	4097	7010	5660	100	568	680	317	–	–	–	–	–	–	–	75
1200	–	–	–	1734	530	1614	4097	7040	5938	100	571	680	325	–	–	–	–	–	–	–	76
1600	–	–	–	2326	515	2837	4141	6270	2777	100	598	645	328	–	–	–	–	–	–	–	80
2000	–	–	–	2194	534	2820	4156	6270	735	100	604	645	322	–	–	–	–	–	–	–	81

	AC Chiller Unit #_____						Refrigeration Unit #_____						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000							190	40	70	✓	9.0	49	195	125	35	44	14
0400							190	30	60	✓	9.1	48	195	125	35	44	12
0800							182	30	60	✓	4	48	190	125	35	45	8
1200							190	35	65	✓	4	48	183	125	35	43	10
1600							180	30	60	✓	9.4	48	195	125	35	43	8
2000							180	30	60	✓	9.5	48	190	125	35	43	20

Remarks:

Watch stander's Signature:

0000 JH WD

0400 JH WD

0800

1200

1600 JH WD

2000 JH WD

2000

Fuel Soundings @ 0000	
Port Storage Tank	
Center Storage Tank	
Stbd Storage Tank	
Today's Total	

Fuel Calculation	
Previous Total	
+ Qty Bunkered	
- Today's Total	
Today's Consumption	
Voyage Consumption	

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/16/07

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
Generator #1 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____																																										
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										
Generator #2 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____																																										
0000	154	111	133	131	129	28	601	60	461	25	62	181	24	61	883	824	0	4	4	9	2	78	104	201	737	859	806	753	793	819	750	793	741	756	790	711	758	786	724	842	1.1/1.1	0
0400	143	111	132	131	129	29	601	60	428	24	62	181	24	61	851	800	0	4	5	9	1	78	104	201	701	817	771	676	735	732	702	741	707	721	797	700	758	792	750	846	1.1/1.1	0
0800	139	113	135	131	130	29	601	60	513	23	62	183	24	61	818	784	0	4	5	9	1	80	104	201	717	846	804	727	772	790	729	773	725	737	800	706	766	793	738	847	1.1/1.1	0
1200	144	109	131	129	127	28	601	60	385	19	63	181	24	62	762	750	0	4	5	9	1	80	102	197	682	756	717	637	682	681	620	707	694	625	747	643	706	703	683	780	1.5/1.5	0
1600	150	110	133	131	129	29	601	60	495	27	62	183	24	61	926	883	0	4	5	9	4	80	104	203	836	911	857	807	854	847	838	887	823	805	865	797	795	845	810	855	1.6/1.6	0
2000	147	109	131	130	127	29	601	60	439	22	63	181	24	61	825	811	0	4	5	9	3	82	104	199	762	855	817	790	816	825	758	811	745	762	756	726	765	798	742	840	1.6/1.6	0
Generator #3 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____																																										
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										
Generator #4 Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____																																										
0000																																										
0400																																										
0800																																										
1200																																										
1600																																										
2000																																										

Date: 5/16/07

	Starboard Z-Drive Motor					P/W Drive Motor					Fuel Oil Tanks						Ballast Tanks				TLI						Drive Cooling			P/W	
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000														2089	559	2775	4171	6330	1195	100	605	638	322								80
0400														1964	586	2735	5807	6330	1647	100	605	638	325								78
0800														1910	586	2644	5830	6270	635	100	605	641	328								77
1200														1874	608	2493	5815	6300	1191	100	599	648	328								73
1600														1814	596	2421	5807	6300	1595	100	599	652	328								75
2000														1740	584	2322	5807	6300	697	100	599	645	322								73

	AC Chiller Unit #____						Refrigeration Unit #__1__						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000							182	35	65	✓	9.3	48	200	125	35	43	18
0400							182	25	50	✓	9.5	48	190	125	35	43	18
0800							150	55	65	✓	9.5	47	185	125	35	43	19
1200							185	30	55	✓	9.1	47	195	125	35	43	18
1600							190	30	60	✓	9.5	48	190	125	35	43	18
2000							185	35	65	✓	9.5	49	200	125	35	44	18

Remarks:

Watch stander's Signature:

0000 [signature]

0400 [signature]

0800 [signature]

1200

1600

2000

Fuel Soundings @ 0000	
Port Storage Tank	106
Center Storage Tank	10589
Stbd Storage Tank	221
Today's Total	10916

Fuel Calculation	
Previous Total	21329
+ Qty Bunkered	
- Today's Total	10916
Today's Consumption	10413
Voyage Consumption	10413

Chief Engineer:_____

M/V Empress of the North

Voyage Number:_____

Date: 5/17/07

Generator #1

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																											
0400																																											
0800																																											
1200																																											
1600																																											
2000																																											

Generator #2

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000	148	107	129	127	125	29	602	60	430	21	63	181	24	61	822	795	0	4	5	9	3	82	104	199	776	859	831	805	825	833	794	837	794	805	808	759	779	831	787	838	1.2/1.2	0
0400	144	103	125	123	121	29	601	60	421	24	63	181	24	62	827	789	0	4	6	9	1	80	102	199	698	811	772	672	728	727	697	725	688	661	801	665	738	750	698	817	1.1/1.1	0
0800	137	105	126	124	122	28	602	60	492	31	62	185	24	61	919	865	0	4	5	9	2	78	102	203	770	841	820	808	823	824	770	822	767	785	786	737	769	815	841	842	1/1	0
1200	131	106	128	127	125	29	602	60	417	24	62	181	24	61	847	442	0	4	5	9	3	80	104	201	778	827	812	828	829	771	824	766	777	788	744	771	823	772	841	847	1.6/1.6	0
1600	150	108	130	128	126	29	601	60	370	23	63	181	24	61	856	827	0	4	5	9	2	80	104	199	762	854	816	783	809	819	750	795	734	751	786	702	748	765	702	824	1.6/1.6	Ø
2000	143	109	131	129	127	29	602	60	486	29	62	183	24	60	928	883	0	4	5	9	4	80	104	201	790	853	835	809	828	831	782	823	772	782	789	730	761	798	744	835	1.6/1.6	Ø

Generator #3

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																											
0400																																											
0800																																											
1200																																											
1600																																											
2000																																											

Generator #4

Hours @ 0000:_____ Sample Oil @ _____ Hrs Change Oil @ _____ Hrs Fuel Meter @ 0000:_____ Fuel Consumed:_____

	NDE Bearing Temp.	DE Bearing Temp.	PH(A) Temp.	PH(B) Temp.	PH(C) Temp.	Sea Water Press.	Generator Voltage	Hertz	Amperage	Load	GA-1 Oil Pressure	GA-2 J/W Temp.	GA-3 Voltage	GA-4 Fuel Pressure	GA-5 Exhst Temp (L)	GA-5 Exhst Temp (R)	GA-6 Air In D/P (L)	GA-6 Air In D/P (R)	GA-7 Fuel Filter D/P	GA-8 Oil Filter D/P	GA-9 Boost Pressure	GA-10 Aftercir. Temp.	GA-11 Air Inlet Temp.	GA-12 Oil Temp.	Cylinder # 1	Cylinder # 2	Cylinder # 3	Cylinder # 4	Cylinder # 5	Cylinder # 6	Cylinder # 7	Cylinder # 8	Cylinder # 9	Cylinder # 10	Cylinder # 11	Cylinder # 12	Cylinder # 13	Cylinder # 14	Cylinder # 15	Cylinder # 16	Crankcase Breathers	Racor
0000																																											
0400																																											
0800																																											
1200																																											
1600																																											
2000																																											

M/V Empress of the North

Voyage Number:_____

Date: 5/17/07

	Port Z-Drive Motor					Starboard Z-Drive Motor					P/W Drive Motor					Fuel Oil Tanks						Ballast Tanks				TLI						Drive Cooling			P/W	
	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	RPM	Arm Amps	Arm Volts	Field Amps	Field Volts	Port Storage	Center Storage	Stbd Storage	Port Day Tank	E-Gen Tank	Stbd Day Tank	Port Ballast	Center Ballast	Stbd Ballast	Aft Ballast	Lube Oil Tank	Oily Water Tank	Dirty Oil Tank	Fwd Pot Water Tank	Aft Pot Water Tank	Black Water Tank	P/W Clg Pressure	Port Z-Drv Clg Press.	Stbd Z-Drv Clg Press.	Oil Pressure	Oil Temperature
0000																			1664	599	2247	5815	6330	1147	100	599	652	322								71
0400																			2010	611	2677	5807	5880	1611	100	605	645	328								70
0800																			1910	607	2627	5807	5880	1997	100	605	645	330								68
1200																			1874	585	2473	5901	5880	524	100	599	546	328								66
1600																			1800	548	2417	5815	5880	964	100	599	655	328								73
2000																			1711	559	2319	5801	5850	1437	100	599	655	328								77

	AC Chiller Unit #_____						Refrigeration Unit #__1__						Air		Refrig. Box Temps		
	Chilled Water Out	Chilled Water In	Suction Pressure	Discharge Pressure	Sea Water Pressure	Chilled Water Press.	Disch Pressure	Suction Pressure	Oil Pressure	Oil Level	Sea Water Pressure	Sea Water Temp.	Start Air Pressure	Service Air Pressure	Galley Walk-in	Walk-in Refrig.	Walk-in Freezer
0000							180	15	40	✓	9.3	49	185	125	35	44	20
0400							150	54	55	✓	9.5	48	200	125	35	44	18
0800							190	33	60	✓	9.1	46	190	125	35	45	18
1200															35	45	18
1600							190	35	65	✓	9.1	48	200	125	35	43	10
2000							180	20	50	✓	9.5	48	190	125	35	43	10

Remarks:

Watch stander's Signature:

0000 [illegible]

0400 [illegible]

0800 [illegible]

1200

1600 [illegible] WTO

2000 [illegible] WTO

Fuel Soundings @ 0000	
Port Storage Tank	106
Center Storage Tank	10230
Stbd Storage Tank	221
Today's Total	10557

Fuel Calculation	
Previous Total	10913
+ Qty Bunkered	
- Today's Total	10557
Today's Consumption	359
Voyage Consumption	10772

Chief Engineer:_____