

		WATCH						WATCH					
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME		240	240	240	240	240	240						
DETENTION TIME													
REVOLUTION COUNTER (END OF WATCH)		1930 5270	1932 8460	1935 1230	1937 3790	1939 6750	1941 9400						
TOTAL REVOLUTIONS (FOR WATCH)		22770	22790	22770	22760	22760	22650						
AVERAGE RPM		94.9	94.9	94.9	94.8	94.8	94.4						
F.O. METER (END OF WATCH)		1140 1230	1140 3890	1140 6500	1140 9120	1141 1770	1141 4430						
F.O. CONSUMED		2710	2660	2610	2630	2640	2660						
MACHINERY PARTICULARS	THROTTLE	420	420	425	425	425	425						
	H.P. AHEAD	420	420	425	425	425	425						
	L.P. AHEAD	20	20	21	21	21	20						
	VACUUM	29.3	29	29	29.5	29.5	29						
	L.O. TO TURBINES	12.2	12.2	12.2	12.5	12.5	12.3						
	AUX. STEAM	135	135	135	135	135	135						
	BACK PRESSURE	9	9	9	9	9	9						
	GLAND STEAM	1	.7	1	1	1	1.1						
	H.P. BLEEDER	78	56	70	70	56	70						
	I.P. BLEEDER	6	6	5.2	6	6	6						
	L.P. BLEEDER	12	12	12"	12"	12"	12"						
	STEAM AT THROTTLE	730	725	725	725	728	740						
	L.P. EXHAUST	106	106	106	106	106	106						
	CONDENSATE	100	100	102	100	100	100						
	CIRC. WATER IN	74	74	75	76	76	76						
	CIRC. WATER OUT	84	84	84	84	86	84						
MACHINERY PARTICULARS	L.O. TO COOLERS	128	126	126	128	128	126						
	L.O. FROM COOLERS	110	110	110	110	110	108						
	TEMPERATURE THRUST BEARING	115	115	115	115	115	115						
	FORWARD H.P. ROTOR BEARING	120	125	120	120	120	120						
	AFT. H. P. ROTOR BEARING	130	130	180	130	130	130						
	FORWARD L. P. ROTOR BEARING	130	130	130	130	130	130						
	AFT. L.P. ROTOR BEARING	125	125	125	125	125	125						
	HOTTEST GEAR BEARING FORWARD	155	148	148	148	148	148						
	HOTTEST GEAR BEARING AFT	140	142	142	142	140	142						
	AUX. COND. CONDENSATE	100	98	100	100	100	98						
	1ST STAGE FEED WATER HEATER	170	170	170	170	170	170						
	D. C. FEED WATER HEATER	238	238	236	238	237	236						
	3RD STAGE FEED H.P. WATER HEATER	135	135	135	135	135	135						
	F.O. TO BURNERS	130	125	125	130	130	125						
	F. O. BACK PRESSURE		4										
MACHINERY PARTICULARS	AIR TO FURNACE	4.5	4.5	4.5	4	4	4.5						
	UPTAKE												
	MAIN STEAM	460	460	460	460	460	460						
	SUPER HEAT	730	725	725	725	728	740						
	F.O. TO BURNERS	190	190	190	190	190	190						
	F.O. TEMP. IN SETTLING TANKS	110 106	110 104	112 110	116 108	116 106	114 110						
	PORT BOILER UPTAKE	300	295	300	295	300	295						
	STBD. BOILER UPTAKE	295	290	290	290	290	305						
	ENGINE ROOM TEMPERATURE	92	91	91	91	91	92						
	FIRE ROOM TEMPERATURE	92	91	91	91	91	92						
	NOZZLES IN USE	18	18	18	18	18	18						
	NO. OF BURNERS IN USE	6	6	6	6	6	6						
	BURNER TIP SIZE	51/55	51/55	51/55	51/55	51/55	51/55						
	CO ₂ % PORT BOILER												
	CO ₂ % STBD. BOILER												
	OIL LEVEL MAIN SUMP	2'2"	2'2"	2'2"	2'2"	2'2"	2'2"						

GENERATORS													FUEL - WATER AND LUBE OIL					
WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL	WATER	LUBE OIL			
1200 TO 1600	3	1200	460	730	8	130	110		64	800	800	235	METER AT NOON	1141 4430	ON HAND AT START OF DAY			
	4	1200	460	730	10	138	116		44	850	850	235	METER PREVIOUS NOON	1135 5520	EVAPORATED OR RECEIVED			
1600 TO 2000	3	1200	460	725	8	130	110		64	700	700	235	CONSUMED BY METER	15910	ON HAND			
	4	1200	460	725	10	135	116		44	800	800	235	ON HAND AT START OF DAY		CONSUMED			
2000 TO 2400	3	1200	460	725	8	132	110		64	800	750	235	RECEIVED DURING DAY		ON HAND AT START OF DAY			
	4	1200	460	725	10	135	116		44	800	800	235	EXPENDED DURING DAY		RECEIVED			
2400 TO 0400	3	1200	460	725	9	130	108		64	750	750	235	REMAINING ON BOARD		ON HAND			
	4	1200	460	725	10	135	116		44	750	750	235	ON HAND AT START OF DAY		CONSUMED			
0400 TO 0800	3	1200	460	728	9	130	110		64	800	800	235	EVAPORATED OR RECEIVED					
	4	1200	460	728	10	135	116		44	850	900	235	ON HAND					
0800 TO 1200	3	1200	460	740	8	132	110		63	900	950	235	CONSUMED					
	4	1200	460	740	10	138	118		44	850	850	235						

L.O. CENTRIFUGE - HOURS OPERATED					
1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
4	4	1	4	4	

SUMMARY		
RUNNING TIME		PERCENT OF SLIP
DETENTION TIME		BBL FUEL/MI
TOTAL REVOLUTIONS		WIND DIRECTION
AVERAGE R.P.M.		STATE OF SEA
TOTAL MILES BY ENGINE		STATE OF WEATHER
TOTAL MILES BY OBSERVATION		

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY RUNNING = #3 & 4 BLRS - #3 & 4 FUEL OIL PUMPS
 MAIN CIRC. PUMP - MAIN AIR EJECTOR - #2 LUB. OIL PUMP - #4 FRESH WATER PUMP - #3 CONDENSATE
 PUMP - #3 & 4 GENERATORS CLEAN STBD. F.O. STRAINER - AND #1 & 2 BURNERS.
 TEST OVERSPEED TRIP & LOW LUB OIL ALARM. CHECK MAIN THROTTLE. (OK)
 ADD PHOS. COMPOUND TO #3 & 4 BLRS. - CALL ELECT. @ 1420 MAIN GENERATORS #3 & 4
 CARRYING OVER 1700 AMPS. PUNCH ALL REGISTER DRAIN HOLES IN #3 & 4 BLRS.

COND. 41 G.P.G.

WATCH ENGR'S SIGNATURE-

Karter

1600-2000 WATCH

MACHINERY IN USE AS ABOVE.

CHANGED AND CLEANED # BURNER ATOMIZER & F.O. SUCTION STRAINER
 PUMPED BILGES. ROUTINE INSPECTION OF MACH. & SPACES.
 ROUTINE SEA STEAMING WATCH.

MAIN COND. 41 G.P.G.

WATCH ENGR'S SIGNATURE-

McDonald

2000-2400 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED
 & CLEANED #6 ATOMIZER & PORT F.O. STRAINER. SHIFTED TO INBOARD SETT
 PUMPED INBOARD & OUTBOARD SETTS FROM 3P/S & E DOUBLE BOTTOM TANKS.
 MADE ROUNDS OF MACHINERY SPACES & EQUIPMENT. NORMAL STEAMING WATCH

COND. 41 G.P.G.

WATCH ENGR'S SIGNATURE-

Clemens

2400-0400 WATCH

ADVANCE CLOCKS 24 HRS. @ 2400 DUE TO CROSSING INTL. DATE LINE.
 UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE.
 CHANGE ~~BOTH~~ ^{HK} LUB. OIL STRAINERS. CLEAN BOTH STRAINERS. CLEAN STBD. FUEL
 OIL STRAINER.

COND. 41 G.P.G.

WATCH ENGR'S SIGNATURE-

Karter

0400-0800 WATCH

MACHINERY IN OPERATION AS BEFORE.
 POT. WATER PUMP SUCTION ON FOREPEAK @ 0400.
 CLEAN #4 ATOMIZER AND F.O. SUCTION STRAINER.
 PUMP BILGES.

MAIN & AUX. COND. 41 G.P.G.

WATCH ENGR'S SIGNATURE-

McDonald

0800-1200 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED &
 CLEANED #5 & 6 ATOMIZERS, CHANGED TO INBOARD SETT. PUMPED INBOARD & OUTBOARD
 SETTLERS FROM #3 & DOUBLE BOTTOM TANKS. CHANGED POT WATER SUCT TO #3P
 @ 0903. PUMPED BILGES. NORMAL STEAMING WATCH.

COND. 41 G.P.G.

WATCH ENGR'S SIGNATURE-

Clemens

CHIEF ENGINEER

BOILER WATER READINGS

STBD PORT

F 1263 F 1375

HOURS 1263 HOURS 1375

AKL 8.74 AKL 9.34

T-WL 11.68 T-AKL 13.43

SAL. 1.24 SAL. 4.97

PHOS. 30 PHOS. 20

R.ph 11 R.ph 11

CHIEF ENGR'S SIGNATURE-

Clemens

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES-MACHINERY RUNNING #3+4 BLRS- #3+4 FUEL OIL PUMPS-MAIN CIRC. PUMP-MAIN AIR EJECTOR- #2 LUB OIL PUMP- #3 FRESH WATER PUMP- #3 CONDENSATE PUMP- #3+4 GENERATORS CLEAN #1-2-3+5 F.O. BURNERS. TEST OVERSPEED TRIP + LOW LUB. OIL ALARM. CHECK MAIN THROTTLE- CLEAN STBD F.O. STRAINER. PUNCH ALL DRAIN HOLES IN BLRS AIR REGISTERS. TEST ALARM FOR FIRE+BOAT DRILL @ 1311-

COND. #1 G.P.G. WATCH ENGR'S SIGNATURE-

Korsten

1600-2000 WATCH

MACHINERY IN USE AS BEFORE.
CLEAN #3 BURNER + F.O. SUCTION STRAINER. TOOK TOP OFF #5 DB. ST. & #8 D.B. PART. PUMPED BILGES.
ROUTINE INSPECTION ALL MACH. + SPACES.
TEST HIGH SALINITY ALARM.

MAIN + AUX. COND. HIG/G

WATCH ENGR'S SIGNATURE-

McRae

2000-2400 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED & CLEANED #4 ATOMIZER. SHIFTED TO INBOARD SETTLER. PUMPED INBOARD & OUTBOARD SETTLER FROM #3 & DOUBLE BOTTOM. PUMPED BILGES. MADE ROUNDS & INSPECTION OF MACHINERY SPACES & EQUIPMENT. NORMAL STEERING WATCH.

COND. #1 G.P.G.

WATCH ENGR'S SIGNATURE-

Clemens

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE.
RETARD CLOCK @ 0100. CASUALTY DRILL @ 0100 TO 0130 FOUR MEN PRESENT.
CLEAN STBD F.O. STRAINER

COND. #1 G.P.G.

WATCH ENGR'S SIGNATURE-

Korsten

0400-0800 WATCH

MACHINERY IN USE AS BEFORE.
RETARD CLOCK 20' @ 0458.
CASUALTY DRILL B-3. (LOSS OF FEED PUMP SUCTION) HELD FROM 0500 TO 0530.
4 MEN PRESENT BRIDGE NOTIFIED. TEST RUN STBY L.D. PUMP.
PUMP BILGES. ROUTINE WATCH.

MAIN COND. HIG/G.

WATCH ENGR'S SIGNATURE-

McRae

0800-1200 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED & CLEANED #5 ATOMIZER & PORT F.O. STRAINER. CHANGED TO INBOARD SETT. PUMPED 1+2 SETTS FROM #3 & 2 P/S DOUBLE BOTTOM TANKS. MADE ROUNDS OF ENG SPACES & EQUIPMENT. HELD CASUALTY DRILL B-3 0940 TO 1000 LOSS OF FEED PUMP SUCT. 4 MEN. BRIDGE NOTIFIED.
STANDBY ON TEL @ 1119. 4 @ 1128.

COND. #1 G.P.G.

WATCH ENGR'S SIGNATURE-

Clemens

CHIEF ENGINEER

BOILER WATER READINGS

STB'D	PORT
HOURS F 1287	HOURS F 1399
W 1287	W 1399
AKL 8.76	AKL 10.51
T-AKL 11.68	T-AKL 13.43
SAL. 1.24	SAL. 4.14
PHOS. 30	PHOS. 20
R.ph 11	R.ph 11

CHIEF ENGR'S SIGNATURE-

Smith

WATCH							WATCH						
	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME	240	240	240	240	240	240	MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING	130	130	130	130	130
DETENTION TIME								FORWARD L. P. ROTOR BEARING	130	130	130	130	130
REVOLUTION COUNTER (END OF WATCH)	1758 2390	1960 4870	1965 7380	1965 9850	1967 2210	1967 2500		AFT. L. P. ROTOR BEARING	125	125	125	125	125
TOTAL REVOLUTIONS (FOR WATCH)	22440	22500	22490	22670	22160	22500		HOTTEST GEAR BEARING FORWARD	150	148	148	148	148
AVERAGE RPM	93.5 95	93.8	93.7	94.5	92.3	93.9		HOTTEST GEAR BEARING AFT	140	140	140	140	140
F.O. METER (END OF WATCH)	1143 3350	1143 5350	1143 8520	1144 1160	1144 3720	1144 4840		AUX. COND. CONDENSATE	94	98	100	98	98
F.O. CONSUMED	2540	2500	2570	2640	2560	2620		1ST STAGE FEED WATER HEATER	170	170	170	170	170
MACHINERY PARTICULARS	PRESSURES	THROTTLE	425	420	425	425		D. C. FEED WATER HEATER	238	238	236	238	238
		H.P. AHEAD	425	420	425	425		3RD STAGE FEED H.P. WATER HEATER	135	135	135	135	135
		L.P. AHEAD	20.5	20.5	21	20		BOILER PARTICULARS	F.O. TO BURNERS	120	120	125	120
		VACUUM	29.5	29.5	29.5	29.5			F. O. BACK PRESSURE				
		L.O. TO TURBINES	12.5	12.5	12.2	12.5			AIR TO FURNACE	4	4	4.5	4
		AUX. STEAM	140	140.5	140	140			UPTAKE				
		BACK PRESSURE	9	9	9	9			MAIN STEAM	460	460	460	460
		GLAND STEAM	.5	.8	1.5	1			SUPER HEAT	720	720	710	710
		H.P. BLEEDER	64	70	66	75			F.O. TO BURNERS	190	190	190	190
		I.P. BLEEDER	6	5.5	6	5.5			F.O. TEMP. IN SETTLING TANKS	102/102	104/102	102/104	102/106
		L.P. BLEEDER	12"	12	12"	12"			PORT BOILER UPTAKE	295	295	295	300
MACHINERY PARTICULARS	TEMPERATURES	STEAM AT THROTTLE	720	720	710	710	MISCELLANEOUS	STBD. BOILER UPTAKE	290	290	290	290	300
		L.P. EXHAUST	104	104	103	104		ENGINE ROOM TEMPERATURE	88	87	86	86	84
		CONDENSATE	96	100	100	100		FIRE ROOM TEMPERATURE	88	87	86	86	84
		CIRC. WATER IN	72	72	74	74		NOZZLES IN USE	18	18	18	18	18
		CIRC. WATER OUT	80	84	84	84		NO. OF BURNERS IN USE	6	6	6	6	6
		L.O. TO COOLERS	126	126	126	126		BURNER TIP SIZE	5 1/55	5 1/55	5 1/55	5 1/55	5 1/55
		L.O. FROM COOLERS	110	110	110	110		CO ₂ % PORT BOILER					
		TEMPERATURE THRUST BEARING	115	115	115	115		CO ₂ % STBD. BOILER					
		FORWARD H.P. ROTOR BEARING	120	125	120	120		OIL LEVEL MAIN SUMP	2'2"	2'2"	2'2"	2'2"	2'2"

WATCH	GENERATORS												FUEL - WATER AND LUBE OIL													
	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL	WATER	LUBE OIL	BOILER WATER	ON HAND AT START OF DAY	EVAPORATED OR RECEIVED	ON HAND	CONSUMED	ON HAND AT START OF DAY	RECEIVED	ON HAND	CONSUMED		
1200 TO 1600	3	1200	460	720	8	130	108		64	800	850	235													METER AT NOON	11446350
1600 TO 2000	4	1200	460	720	10	136	116		44	600	600	235	ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY	
2000 TO 2400	3	1200	460	720	8	132	110		64	750	750	235	ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY	
2400 TO 0400	4	1200	460	720	10	138	118		44	800	850	235	ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY	
0400 TO 0800	3	1200	460	710	8	132	110		64	750	750	235	ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY	
0800 TO 1200	4	1200	460	710	10	137	117		44	800	800	235	ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY	
1200 TO 1600	3	1200	460	710	9	132	108		64	750	750	235	ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY	
1600 TO 2000	4	1200	460	710	10	136	118		44	750	750	235	ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY	
2000 TO 2400	3	1200	460	720	9	130	110		64	700	700	235	ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY	
2400 TO 0400	4	1200	460	720	10	135	118		44	800	850	235	ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY	
0400 TO 0800	3	1200	460	720	8	131	110		64	750	800	235	ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY	
0800 TO 1200	4	1200	460	720	10	137	118		44	800	800	235	ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY		ON HAND AT START OF DAY	

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES MACHINERY RUNNING #3 & 4 BURNERS, #3 & 4 FUEL OIL PUMPS, - MAIN CIRC. PUMP
 MAIN AIR EJECTOR, #2 LUB. OIL PUMP, #3 FRESHWATER PUMP, #3 CONDENSATE PUMP, #3 & 4 GENERATORS
 TEST OVERSPEED TRIP & LOW LUB. OIL ALARM. CHECK MAIN THROTTLE, OK. TESTED GEN ALARM
 SYSTEM @ 1300. FIRE & BOAT DRILL @ 1400 TO 1430. SIX MEN PRESENT. ADD PHOS. COMPOUND
 TO #3 BLR. CLEAN STD. F.O. STRAINER & CHANGE #1 F.O. BURNER.

COND. 41 GPG.

WATCH ENGR'S SIGNATURE-

Kersten

1600-2000 WATCH

MACHINERY IN OPERATION AS BEFORE.

CLEANED #3 BURNER ATOMIZER & F.O. SUCTION STRAINER.

PUMPED BILGES - CLEANED OIL LEAKAGE FROM GEAR CASING.

REPAIRING BAGE BUBBLERS & 6 F.O. TANKS.

MAIN COND. 41 G/G.

WATCH ENGR'S SIGNATURE-

McDonald

2000-2400 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED &
 CLEANED #4 ATOMIZER. SHIFTED TO INBOARD SETT. PUMPED #1-2 SETTLERS FROM #2 P/S
 D.B. TANKS. PUMPED BILGES. MADE TURNS OF MACHINERY SPACES & EQUIPMENT.
 NORMAL STEAMING WATCH.

COND. 41 GPG.

WATCH ENGR'S SIGNATURE-

Kersten

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE
 CLEANED STD. F.O. STRAINER - CHANGED #2 F.O. BURNER

COND. 41 GPG.

WATCH ENGR'S SIGNATURE-

Kersten

0400-0800 WATCH

MACH. IN USE AS BEFORE.

CLEANED #4 BURNER & SUCTION STRAINER.

STEAM ON #4 D.B. & F.O. TANK.

PUMPED BILGES. ROUTINE WATCH.

MAIN & AUX. COND. 41 G/G.

WATCH ENGR'S SIGNATURE-

McDonald

0800-1200 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED
 & CLEANED #5 ATOMIZER, & PORT F.O. STRAINER. PUMPED BILGES, CHANGED TO #1 SETT
 PUMPED SETTLERS FROM #4 P/S D.B. TANKS. TOOK THE HORN OFF #7 P/S. TEST RUN
 #2 STD. F.W. PUMP. MADE TURNS OF MACH. SPACES & EQUIPMENT. NORMAL
 STEAMING WATCH.

COND. 41 GPG.

WATCH ENGR'S SIGNATURE-

Kersten

CHIEF ENGINEER

BOILER WATER READINGS

STE'D	PORT
HOURS F-1311	HOURS F-1423
W-1311	W-1423
AKL 9.93	AKL 8.7
T-AKL 14.02	T-AKL 11.68
SAL. 4.97	SAL. 1.66
PHOS. 40	PHOS. 30
R.ph 11	R.ph 11

CHIEF ENGR'S SIGNATURE-

Kersten

TEMPERATURES

DE
TO
AT
TO
EN
TO

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY RUNNING. #3 + 4 BLRS. - #3 + 4 FUEL OIL PUMPS - MAIN CIRC. PUMP - MAIN AIR EJECTOR - #2 LUB. OIL PUMP - #3 FRESH WATER PUMP - #3 CONDENSATE PUMP - #3 + 4 GENERATORS
 CLEAN MAIN OIL STRAINER - TEST OVERSPEED TRIP + LOW LUB. OIL ALARM. TEST THROTTLE CK.
 TEST GEN. ALARM SYSTEM @ 1301. STEERING & GR. CASUALTY DRILL @ 1346 - STBY @ 1347. SEC. FROM DRILL @ FALL AHEAD @ 1359. ELECT. CHANGED INDICATOR LIGHT ON MAIN CONDENSATE PUMP
 CLEAN L.O. PURIFIER. - CLEAN STBD. F.O. STRAINER. CLEAN #1 + 2 F.O. BURNERS. CLEAN DRAIN HOLES IN AIR REGISTERS. COND. 41 GPG. WATCH ENGR'S SIGNATURE - *Karsten*

1600-2000 WATCH

MACHINERY IN USE AS BEFORE.
 BLEW TUBES #2 & #4 BOILERS. CLEANED #3 BURNER + F.O. SECTION STRAINER
 STEERING GEAR CASUALTY DRILL @ 1612 - STBY @ 1613. SECURED FROM DRILL @ 1623. BILGES AT SAFE LEVEL.
 ROUTINE WATCH

2000-2400 WATCH

COND. 41 GPG. WATCH ENGR'S SIGNATURE - *McDonald*
 UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CLEANED #6 ATOMIZER & PORT F.O. STRAINER. CHANGED TO INBOARD SETTLER. PUMPED #1-2 SETTLERS FROM #4 P/S. RETARDED CLOCK 20 MIN @ 2300. MADE ROUNDS OF ENGINE SPACES & EQUIPMENT. NORMAL STEERING WATCH.

2400-0400 WATCH

COND. 41 GPG. WATCH ENGR'S SIGNATURE - *Clemens*
 UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE.
 RETARDED CLOCKS 20 MIN @ 0100. CLEAN STBD F.O. STRAINER

0400-0800 WATCH

COND. 41 GPG. WATCH ENGR'S SIGNATURE - *Karsten*
 MACHINERY IN OPERATION AS BEFORE.
 CLEANED #4 BURNER ATOMIZER & F.O. SECTION STRAINER.
 RETARD CLOCK 20 MIN @ 0503. REPAIRED BILGE PUMP.
 PUMPED BILGES. ROUTINE INSPECTION OF MACHINERY & SPACES

0800-1200 WATCH

COND. 41 GPG. WATCH ENGR'S SIGNATURE - *McDonald*
 UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED & CLEANED #5 ATOMIZER & PORT F.O. STRAINER. CHANGED TO #1 SETT. PUMPED #1-2 SETTLERS FROM #4 DOUBLE TANK. MADE ROUNDS OF MACHINERY SPACES & EQUIPMENT. NORMAL STEERING WATCH.

CHIEF ENGINEER

COND. 41 GPG. WATCH ENGR'S SIGNATURE - *Clemens*

BOILER WATER READINGS

STE'D F-1335 HRS - F-1447 HRS.
 W-1335 PORT W-1447 HRS.

HOURS ↑ HOURS ↑

AKL 9.93 AKL 9.76

T-AVL 12.85 T-AKL 11.68

SAL. 4.56 SAL. 1.66

PHOS. 30 PHOS. 30

R.ph 11 R.ph 11

CHIEF ENGR'S SIGNATURE - *McDonald*

		WATCH								WATCH											
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200						
RUNNING TIME		240	240	240	240	240	240	MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		AFT. H. P. ROTOR BEARING									
DETENTION TIME												130 130 130 130 130 130									
REVOLUTION COUNTER (END OF WATCH)		1985 6930	1987 9430	1990 1610	1992 4360	1994 7120	1996 9840					FORWARD L. P. ROTOR BEARING									
TOTAL REVOLUTIONS (FOR WATCH)		22210	22500	22480	22750	22760	22770					125 130 128 128 130 130									
AVERAGE RPM		92.5	93.5	92.4	94.8	94.8	94.9					AFT. L.P. ROTOR BEARING									
F.O. METER (END OF WATCH)		1146 5400	1146 8380	1147 0730	1147 3350	1147 5960	1147 8570					125 125 125 125 125 125									
F.O. CONSUMED		2610	2690	2650	2620	2610	2610					HOTTEST GEAR BEARING FORWARD									
												148 148 148 148 150 148									
PRESSURES		THROTTLE		420	420	425	425	420	425	BOILER PARTICULARS		TEMPERATURES		HOTTEST GEAR BEARING AFT							
		H.P. AHEAD		420	420	425	425	420	425					140 140 140 140 140 140							
		L.P. AHEAD		20.5	20.5	21	20	20	20					AUX. COND. CONDENSATE							
		VACUUM		29"	29.5	29.5	29.5	29.5	29.5					96 100 100 98 96 98							
		L.O. TO TURBINES		12.2	12.2	12.2	12.5	12.2	12.3					1ST STAGE FEED WATER HEATER							
		AUX. STEAM		135	135	135	140	135	135					170 170 170 170 170 170							
		BACK PRESSURE		9	9	9	9	9	9					D. C. FEED WATER HEATER							
		GLAND STEAM		1	1	1.1	1	.9	.9					238 238 236 238 238 238							
		H.P. BLEEDER		78	60	70	74	70	60					3RD STAGE FEED H.P. WATER HEATER L.P.							
		I.P. BLEEDER		5.5	5.2	6	5.5	6	6					631 651 651 651 651 651							
TEMPERATURES		L.P. BLEEDER		12"	12"	12"	12"	12"	12"	MISCELLANEOUS		F.O. TO BURNERS									
		STEAM AT THROTTLE		715	725	715	715	725	730			120 115 115 115 123 120									
		L.P. EXHAUST		102	115	105	104	104	103			F. O. BACK PRESSURE									
		CONDENSATE		98	102	102	100	100	100			AIR TO FURNACE									
		CIRC. WATER IN		72	74	74	74	72	73			4.0 4.0 4.5 3.7 4 4.1									
		CIRC. WATER OUT		80	84	84	84	80	82							UPTAKE					
		L.O. TO COOLERS		126	128	126	126	126	128							MAIN STEAM					
		L.O. FROM COOLERS		110	112	110	110	110	110							460 460 460 460 460 460					
		TEMPERATURE THRUST BEARING		115	115	115	115	115	115							SUPER HEAT					
		FORWARD H.P. ROTOR BEARING		120	120	120	120	120	120							715 725 715 715 725 736					
								F.O. TO BURNERS													
								190 190 190 190 190 190													
								F.O. TEMP. IN SETTLING TANKS													
								102 106 108 100 104 109													
								PORT BOILER UPTAKE													
								300 295 295 295 305 295													
								STBD. BOILER UPTAKE													
								290 290 285 290 295 290													
								ENGINE ROOM TEMPERATURE													
								88 88 88 87 85 87													
								FIRE ROOM TEMPERATURE													
								88 88 88 87 85 87													
								NOZZLES IN USE													
								18 18 18 18 18 18													
								NO. OF BURNERS IN USE													
								6 6 6 6 6 6													
								BURNER TIP SIZE													
								5 1/55 5 1/55 5 1/55 5 1/55 5 1/55 5 1/55													
								CO ₂ % PORT BOILER													
								CO ₂ % STBD. BOILER													
								OIL LEVEL MAIN SUMP													
								2'2" 2'2" 2'2" 2'2" 2'2" 2'2"													

WATCH	GENERATORS												FUEL - WATER AND LUBE OIL					
	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL	DOMESTIC WATER	BOILER WATER	LUBE OIL		
1200 TO 1600	3	1200	460	715	9	132	110		64	650	700	235	METER AT NOON	1478570	ON HAND AT START OF DAY			
	4	1200	460	715	10	135	116		44	600	600	235	METER PREVIOUS NOON	1462790	EVAPORATED OR RECEIVED			
1600 TO 2000	3	1200	460	725	9	132	110		64	850	950	235	CONSUMED BY METER	15780	ON HAND			
	4	1200	460	725	10	137	118		44	900	700	235	ON HAND AT START OF DAY		CONSUMED			
2000 TO 2400	3	1200	460	715	9	134	112		64	700	650	235	RECEIVED DURING DAY		ON HAND AT START OF DAY			
	4	1200	460	715	10	137	118		44	650	650	235	EXPENDED DURING DAY		RECEIVED			
2400 TO 0400	3	1200	460	715	9	132	110		64	800	850	235	REMAINING ON BOARD		ON HAND			
	4	1200	460	715	10	135	116		44	600	600	235	ON HAND AT START OF DAY		CONSUMED			
0400 TO 0800	3	1200	460	725	7	130	110		63	750	800	235	EVAPORATED OR RECEIVED					
	4	1200	460	725	10	135	116		44	800	800	235	ON HAND					
0800 TO 1200	3	1200	460	730	9	133	112		64	750	700	235	CONSUMED					
	4	1200	460	730	10	137	118		44	750	750	235	LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)					
L.O. CENTRIFUGE - HOURS OPERATED																		
1200 TO 1600		1600 TO 2000		2000 TO 2400		2400 TO 0400		0400 TO 0800		0800 TO 1200								
4		4		4		4		4										
SUMMARY																		
RUNNING TIME								PERCENT OF SLIP										
DETENTION TIME								BBL FUEL/MI										
TOTAL REVOLUTIONS								WIND DIRECTION										
AVERAGE R.P.M.								STATE OF SEA										
TOTAL MILES BY ENGINE								STATE OF WEATHER										
TOTAL MILES BY OBSERVATION																		

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY RUNNING: #3 & 4 BLRS - #3 & 4 FUEL OIL PUMPS - MAIN CIRC. PUMP - MAIN AIR EJECTOR - #2 LUB OIL PUMP - #3 FRESH WATER PUMP - #3 CONDENSATE PUMP - #3 & 4 GENERATORS - TEST OVERSPEED TRIP + LOW LUB OIL ALARM. TEST MAIN THROTTLE CK. CLEAN STBD F.O. STRAINER. CHANGED #1 & #2 FUEL OIL BURNERS. PUNCH OUT DRAIN HOLES IN AIR REGISTERS ON #1 & 2 BLRS.

COND. 41 GPG.

WATCH ENGR'S SIGNATURE-

Kersten

1600-2000 WATCH

MACHINERY IN USE AS BEFORE. BLEW TUBES #3 & #4 BOILERS. CHARGE BURNER & CLEAN ATOMIZER #3 BURNER. CLEAN FUEL OIL SUCTION STRAINER. CHECK #5, 6, 7 & 8 P.S. & 4 TANKS FOR SWELLING. TURNED STEAM ON #5 P.S. & 4 TANKS. PUMPED BILGES. RUN STBY FEED PUMP TO #4 BOILER WHILE BLOWING TUBES.

MAIN & AUX COND. - 4 G/G.

WATCH ENGR'S SIGNATURE-

Medford

2000-2400 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED & CLEANED #6 ATOMIZER, PART F.O. STRAINER. PUMPED #2 SETTLER FROM #4 & DOUBLE TANK. MADE ROUNDS OF ENGINE SPACES & EQUIPMENT. NORMAL STEAMING WATCH.

COND 41 GPG.

WATCH ENGR'S SIGNATURE-

Clemson

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. MADE ROUNDS OF ENGINE EQUIPMENT. NORMAL STEAMING WATCH. CHARGE STBD F.O. STRAINER.

COND 41 GPG.

WATCH ENGR'S SIGNATURE-

Kersten

0400-0800 WATCH

MACH. IN OPERATION AS BEFORE. CLEANED #4 BURNER ATOMIZER & F.O. SUCTION STRAINER. PUMPED BILGES. ROUTINE INSPECTIONS OF ALL HULL & SPACES. ROUTINE WATCH.

MAIN COND. - 4 G/G.

WATCH ENGR'S SIGNATURE-

Medford

0800-1200 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED & CLEANED #5 ATOMIZER & PART STRAINER. PUMPED #1 SETTLER FROM #4 & DOUBLE BOTTOM TANK. MADE ROUNDS OF ENGINE SPACES & EQUIPMENT. NORMAL STEAMING WATCH.

COND 41 GPG.

WATCH ENGR'S SIGNATURE-

Clemson

CHIEF ENGINEER

BOILER WATER READINGS

STB'D PORT
F-1339 F-1471
HOURS W-1339 HOURS W-1471
AKL 9.34 AKL 7.01
T-171 12.25 T-AKL 9.34
SAL. 4.56 SAL. 1.46
PHOS. 30 PHOS. 30
Rph 11 R.ch 11

CHIEF ENGR'S SIGNATURE-

Clemson

REMARKS

1200-1600 WATCH

UNDERWAY ON 12 NOZZLES. MACHINERY RUNNING: #3+4 BLRS - #3+4 F.O. PUMPS. MAIN CIRC. PUMP - MAIN AIR EJECTOR - #3 FRESH WATER PUMP - #3+4 GENERATORS - TEST OVER SPEED TRIP + LOW LUB. OIL ALARM - TEST MAIN THROTTLE CK. - CHANGE F.O. STBD. STRAINER + CHANGE #1+2 FUEL OIL BURNERS PUNCH OUT DRAIN HOLES IN AIR REGISTERS.

COND. 41 GPG

1600-2000 WATCH

WATCH ENGR'S SIGNATURE-

Kersten

MACHINERY IN OPERATION AS BEFORE.

BLEW TUBES #3+4 BOILERS

CLEANED #3 BURNER ATOMIZER & F.O. SUCTION STRAINER.

ROUTINE WATCH.

MAIN COND. 41 GPG

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

H. L. Powers

UNDERWAY ON 18 NOZZLES. MACHINERY AS BEFORE. CHANGED & CLEANED #1 ATOMIZER & PORT F.O. STRAINER. PUMPED SETTLERS FROM #5 P/S DOUBLE BOTTOM TANKS. PUMPED BILGES. RETARDED CLOCK 20 MIN @ 2300 HOURS. MADE ROUNDS OF ENGINE SPACES & EQUIPMENT. NORMAL STEAMING WATCH.

COND. 41 GPG

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

Clemson

UNDERWAY ON 18 NOZZLES. MACHINERY AS BEFORE. CHANGE STBD. F.O. STRAINER. CHANGED & CLEANED LUB OIL STRAINER. BRIDGE CALLED THAT BOTH RED + GREEN INDICATOR LIGHTS FOR #2 W.T. DOOR WERE LIT. CHECKED SAME DOOR WAS SECURED. HELD CASUALTY DRILL B-4 LOW WATER IN BLR.

COND. 41 GPG

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

Kersten

MACHINERY AS BEFORE.

CLEANED #4 BURNER ATOMIZER & F.O. SUCTION STRAINER.

RETARD CLOCK 20 MIN @ 0455.

TEST RUN STBY FEED, F.O.S. & H.O. PUMPS. TEST HIGH SALINITY ALARM.

HELD ENG CASUALTY DRILL B-4 (LOW WATER IN BOILER) FROM 0500 TO 0530. 4 MEN PRESENT. BRIDGE NOTIFIED.

MAIN & AUX. COND. 41 GPG

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

M. Schmitt

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED & CLEANED #5 ATOMIZER & PORT F.O. STRAINER. PUMPED SETTLERS FROM #55 DOUBLE BOTTOM TANK. HELD STEERING CASUALTY DRILL 0930-1000 1020-1029. S.B.C 1020 4 @ 1029. HELD CASUALTY DRILL B-4 LOW WATER IN BOILER. MADE ROUNDS OF ENGINE ROOM SPACES & EQUIPMENT. NORMAL STEAMING WATCH.

COND. 41 GPG

CHIEF ENGINEER

WATCH ENGR'S SIGNATURE-

Clemson

BOILER WATER READINGS

STBD	PORT
HOURS F 1383	HOURS F 1495
W 1383	W 1495
AKL 9.93	AKL 7.59
T-AKL 14.02	T-AKL 11.68
SAL. 4.14	SAL. 1.66
PHOS. 30	PHOS. 30
R.ph 11	R.ch 11

CHIEF ENGR'S SIGNATURE-

M. Schmitt

	WATCH							WATCH					
	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME	240	240	240	240	240	132	MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING	130	130	130	128	128
DETENTION TIME								FORWARD L. P. ROTOR BEARING	128	125	127	125	125
REVOLUTION COUNTER (END OF WATCH)	2013 5350	2015 3260	2018 1080	2020 2830	2022 4250	2023 7300		AFT. L.P. ROTOR BEARING	125	125	125	120	125
TOTAL REVOLUTIONS (FOR WATCH)	23000	22910	22820	21750	21420	13250		HOTTEST GEAR BEARING FORWARD	148	148	148	146	144
AVERAGE RPM	95.8	95.4	95.1	90.6	89.2	75.8		HOTTEST GEAR BEARING AFT	140	140	140	138	136
F.O. METER (END OF WATCH)	1149 7570	1150 0220	1150 0820	1150 5380	1150 7870	1150 9580		AUX. COND. CONDENSATE	96	96	96	98	94
F.O. CONSUMED	2670	2650	2600	2560	2440	1710		1ST STAGE FEED WATER HEATER	170	170	170	170	165
PRESSURES	THROTTLE	420	420	425	420	420		O. C. FEED WATER HEATER	238	238	236	235	238
	H.P. AHEAD	420	420	425	420	420		3RD STAGE FEED H.P. WATER HEATER	0.51 135	0.51 0135	0.51 135	0.51 135	0.51 135
	L.P. AHEAD	20.5	20	21	21	16.5		F.O. TO BURNERS	115	125	120	120	118
	VACUUM	29.3	29.3	29.5	29.3	29.5		F. O. BACK PRESSURE					
	L.O. TO TURBINES	12.5	12.3	12.2	12.5	12.5		AIR TO FURNACE	4.3	4	4.2	5.5	3.5
	AUX. STEAM	135	135	135	140	140		UPTAKE					
	BACK PRESSURE	9	9	9	9	9		MAIN STEAM	460	460	460	460	460
	GLAND STEAM	15	9	1.1	2.0	1.4		SUPER HEAT	725	723	723	735	708
	H.P. BLEEDER	78	70	72	54	70		F.O. TO BURNERS	190	190	190	190	190
	I.P. BLEEDER	6	6	6	6	6		F.O. TEMP. IN SETTLING TANKS	110 100	112 106	122 110	110 104	110 104
TEMPERATURES	L.P. BLEEDER	12"	12"	12"	12"	12"	BOILER PARTICULARS (CONT'D)	PORT BOILER UPTAKE	290	290	300	300	295
	STEAM AT THROTTLE	725	723	723	735	708		STBD. BOILER UPTAKE	290	285	290	300	285
	L.P. EXHAUST	102	104	104	102	100		ENGINE ROOM TEMPERATURE	88	88	86	86	82
	CONDENSATE	98	100	99	100	95		FIRE ROOM TEMPERATURE	88	88	86	86	82
	CIRC. WATER IN	72	74	73	72	72		NOZZLES IN USE	18	18	18	18	12-8
	CIRC. WATER OUT	82	82	82	82	80		NO. OF BURNERS IN USE	6	6	6	6	6-4
	L.O. TO COOLERS	128	128	126	126	126		BURNER TIP SIZE	51/33	51/55	51/55	51/55	51/55
	L.O. FROM COOLERS	110	110	110	110	110		CO ₂ % PORT BOILER					
	TEMPERATURE THRUST BEARING	115	115	115	112	115		CO ₂ % STBD. BOILER					
	FORWARD H.P. ROTOR BEARING	120	120	120	118	120		OIL LEVEL MAIN SUMP	2'2"	2'2"	2'2"	2'2"	2'2"

WATCH	GENERATORS												FUEL - WATER AND LUBE OIL						
	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL		BOILER WATER		LUBE OIL		
1200 TO 1600	3	1200	460	725	9	132	108		64	800	850	235	METER AT NOON	11504660		ON HAND AT START OF DAY			
	4	1200	460	725	10	135	116		44	850	850	235	METER PREVIOUS NOON	11494900		EVAPORATED OR RECEIVED			
1600 TO 2000	3	1200	460	723	9	130	110		64	850	900	235	CONSUMED BY METER			ON HAND			
	4	1200	460	723	10	135	116		44	650	650	235	ON HAND AT START OF DAY			CONSUMED			
2000 TO 2400	3	1200	460	723	8	130	110		64	750	800	235	RECEIVED DURING DAY			ON HAND AT START OF DAY			
	4	1200	460	723	10	136	117		44	750	760	235	EXPENDED DURING DAY			RECEIVED			
2400 TO 0400	3	1200	460	735	9	132	108		64	800	850	235	REMAINING ON BOARD			ON HAND			
	4	1200	460	735	10	135	116		44	600	600	235	ON HAND AT START OF DAY			CONSUMED			
0400 TO 0800	3	1200	460	708	9	130	108		64	800	850	235	EVAPORATED OR RECEIVED						
	4	1200	460	708	110	135	116		44	850	850	235	ON HAND						
0800 TO 1200	3	1200	460		9	130	108		64	750	750	235	CONSUMED						
	4	1200	460		10	134	116		44	750	750	235	DOMESTIC WATER						
LOW PRESS. EVAPORATORS (No. of hrs. operated)(Fresh water made gals.)																			
L.O. CENTRIFUGE - HOURS OPERATED																			
	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200													
	4	4	4	4	4	4													
SUMMARY																			
RUNNING TIME												PERCENT OF SLIP							
DETENTION TIME												BBL FUEL/MI							
TOTAL REVOLUTIONS												WIND DIRECTION							
AVERAGE R.P.M.												STATE OF SEA							
TOTAL MILES BY ENGINE												STATE OF WEATHER							
TOTAL MILES BY OBSERVATION																			

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY RUNNING #3+4 BLRS. - #3+4 FUEL OIL PUMPS. - #3+4 FEED W. PUMPS - MAIN CIR. PUMP - MAIN AIR EJECTOR - #2 LUB OIL PUMP #3 FRESH WATER PUMP - #3 CONDENSATE PUMP. - #3+4 GENERATORS. TEST OVERSPEED TRIP & LOW LUB. OIL ALARM. - TEST THROTTLE CK. - CLEAN STBD FO STRAINER. CHANGE #1+2 F.O. BURNERS. TEST GEN. ALARM, @ 1300

COND. 41 GPG

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

MACHINERY IN OPERATION AS BEFORE.
CLEANED #3 BURNER ATOMIZER & F.O. SUCTION STRAINER.
#2 W.T. DOOR CLOSED @ 1745 - INDICATOR LIGHT ON BRIDGE INDICATES DOOR OPEN.
DOOR WAS CLOSED UPON INSPECTION - BRIDGE NOTIFIED.
BURN TUBES #3 & #4 BOILERS. ROUTINE WATCH.

COND. 46 GPG

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED & CLEANED #4 ATOMIZER. PUMPED SETTLERS FROM #5 & DOUBLE BOTTOM TANK. PUMPED BILGES. MADE ROUNDS OF ENGINE SPACES & EQUIPMENT. NORMAL STEAMING WATCH. CHIEF ENGR IN ENGINE ROOM FROM 2020 TO 2100.

COND. 41 GPG

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

REDUCE SPEED TO 90 R.P.M. @ 2400 AS REQUESTED BY BRIDGE.
UNDERWAY ON 12 NOZZLES. MACHINERY IN OPERATION AS BEFORE.
CLEAN STBD FO STRAINER.

COND. 41 GPG

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

MACHINERY IN OPERATION AS BEFORE. ~~Except~~
CLEANED #4 BURNER & F.O. SUCTION STRAINER.
PUMPED BILGES. TEST RUN L.O. FEEDS F.O. STBD PUMPS.
ROUTINE WATCH - 12 NOZZLES. BLOCK NOZZLES - 80 TURNS @ 0730

COND. 46 GPG

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

SPLIT THE PLANT @ 0845. PUMPED #1 SETTLER FROM #5 P/S DOUBLE TANKS. ARRIVAL @ 1032 C-20237300. F.O.M. 11509200 MANEUVERING BELLS AS PER bell books.

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

BOILER WATER READINGS

STB'D PORT
F-1407 F-1519
HOURS W-1407 HOURS W-1519
AKL 7.34 AKL 7.76
T-AKL 12.26 T-AKL 11.68
SAL. 4.14 SAL. 1.66
PHOS. 30 PHOS. 20
Rph 11 Rph 11

CHIEF ENGR'S SIGNATURE-

USNS	VOYAGE NO. 7 B	FROM	TO	TYPE OF VESSEL	DATE
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WATCH							WATCH						
	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME	+					174	MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING	-				130
DETENTION TIME	-							FORWARD L. P. ROTOR BEARING	-				130
REVOLUTION COUNTER (END OF WATCH)	-					9023		AFT. L.P. ROTOR BEARING	-				125
TOTAL REVOLUTIONS (FOR WATCH)	-					14640		HOTTEST GEAR BEARING FORWARD	-				148
AVERAGE RPM	-					95.0		HOTTEST GEAR BEARING AFT	-				140
F.O. METER (END OF WATCH)	1151 0040	1151 0360	1151 0700	1151 0700	1151 1670	1151 2810		AUX. COND. CONDENSATE	84	86	85		90
F.O. CONSUMED	460	460 320	340	300	600	2140		1ST STAGE FEED WATER HEATER	140	90	-		170
PRESSURES	THROTTLE	-				420		D. C. FEED WATER HEATER	236	236	238		238
	H.P. AHEAD	-				420		3RD STAGE FEEDHP WATER HEATER	-				251 130
	L.P. AHEAD	-				23		F.O. TO BURNERS	200	175	180	200	200 125
	VACUUM	23.5	23.5	23.5		25.4 29.5		F. O. BACK PRESSURE	-				-
	L.O. TO TURBINES	13.2	13.2	13.2		13.2 12.5		AIR TO FURNACE	2"	2"	2"	2"	2" 4"
	AUX. STEAM	150	150	150		140 125		UPTAKE	-				-
	BACK PRESSURE	9	9	9		9 9		MAIN STEAM	-				460 440 232
	GLAND STEAM	1.5	1.5	1.5		2.0 1.5		SUPER HEAT	650	650	640	650	650 735
	H.P. BLEEDER	-				70		F.O. TO BURNERS	190	190	190	190	190 190
	I.P. BLEEDER	-				6		F.O. TEMP. IN SETTLING TANKS	110	106	104	102	102 104
TEMPERATURES	L.P. BLEEDER	-				12	BOILER PARTICULARS	PORT BOILER UPTAKE	-			320	320 320
	STEAM AT THROTTLE	-				735		STBD. BOILER UPTAKE	320	260	270	300	300 320
	L.P. EXHAUST	-				100		ENGINE ROOM TEMPERATURE	82	77	74	78	78 85
	CONDENSATE	84	80	80		100		FIRE ROOM TEMPERATURE	82	77	74	78	78 85
	CIRC. WATER IN	70	72	72		72		NOZZLES IN USE	-				18
	CIRC. WATER OUT	80	72	75		82		NO. OF BURNERS IN USE	1	1	1	2	2 6
	L.O. TO COOLERS	108	108	108		128		BURNER TIP SIZE	53/60	53/60	53/60	53/60	53/60 51/55
	L.O. FROM COOLERS	108	108	108		110		CO ₂ % PORT BOILER	-				
	TEMPERATURE THRUST BEARING	-				115		CO ₂ % STBD. BOILER	-				
	FORWARD H.P. ROTOR BEARING	-				120		OIL LEVEL MAIN SUMP	2 1/2"	2'	2'	2'	2' 2.1"

GENERATORS											FUEL - WATER AND LUBE OIL										
WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL			DOMESTIC WATER			LUBE OIL		
1200 TO 1600	3		460	650	9	132	108		64	1000	1000	235	METER AT NOON	11513810	ON HAND AT START OF DAY						
	4		460	650	10	135	116		44	550	550	235	METER PREVIOUS NOON	11509580	EVAPORATED OR RECEIVED						
1600 TO 2000	3		460	650	8	132	110		64	700	750	235	CONSUMED BY METER	4230	ON HAND						
	4		460	650	10	135	116		44	650	600	235	ON HAND AT START OF DAY		CONSUMED						
2000 TO 2400	3	1200	460	650	8	132	110		64	-	-	235	RECEIVED DURING DAY		ON HAND AT START OF DAY						
	4	1200	460	650	10	135	116		44	750	750	235	EXPENDED DURING DAY		ON HAND						
2400 TO 0400													REMAINING ON BOARD		CONSUMED						
													ON HAND AT START OF DAY								
0400 TO 0800	3	1200	460	650	8	132	110		64	800	800	225	EVAPORATED OR RECEIVED								
	4	1200	460	650	10	135	116		44	800	800	235	ON HAND								
0800 TO 1200	3	1200	460	650	9	132	110		64	800	800	235	CONSUMED								
	4	1200	460	650	10	135	116		44	800	800	235									

L.O. CENTRIFUGE - HOURS OPERATED					
1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
4	4	7		4	4
SUMMARY					
RUNNING TIME	174	PERCENT OF SLIP			
DETENTION TIME	0	BBL FUEL/MI			
TOTAL REVOLUTIONS	14,890	WIND DIRECTION			
AVERAGE R.P.M.		STATE OF SEA			
TOTAL MILES BY ENGINE		STATE OF WEATHER			
TOTAL MILES BY OBSERVATION					

REMARKS

1200-1600 WATCH

PORT WATCH - SECURED PORT BOILER - JACKING GEAR.

STARTED TAKING ON BUNKERS @ 2245. MAINTAIN V46024 MAIN ENGINE.

Telling Tank Water from Dock - FORE PEAK & #3 P&S.

BELLS AS PER BELL BOOK. F.W.E @ 1156

FOM - P - 3813840

P-CENTR - 20240410

FOM - S - 7695820

S-CENTR - 21009120

WATCH ENGR'S SIGNATURE -

McDonnell

1600-2000 WATCH

AS BEFORE. PORT WATCH.

Finished jacking ship @ 1820.

WATER FROM DOCK TO FORE PEAK & #3 P&S

#3 P. POT WATER TAPPED OFF.

WATCH ENGR'S SIGNATURE -

McDonnell

2000-2400 WATCH

IN PORT. MAIN ENGINE ON JACKING GEAR, WATER FROM DOCK TO POT TANKS, WORKING ON #4 GAUGE GLASS CUTOUT VALVE, MADE ROUNDS OF ENGINE SPACES.

O.L.G. MARGRAVE, F.W.T. WATRINS

COND. .41 GPG.

WATCH ENGR'S SIGNATURE -

McDonnell

2400-0400 WATCH

IN PORT. MAIN ENGINE ON JACKING GEAR. WORK COMPLETED ON GAUGE GLASS CUTOUT VALVE.

OILER BEAUCHAMP, FWT BUTLER

COND. .41 GPG.

WATCH ENGR'S SIGNATURE -

Karsten

0400-0800 WATCH

AS BEFORE EXCEPT.

LIGHT OFF #4 BOILER @ 0400; CUT BOILER IN OR NINE @ 0630.

WHEEL CLEARANCE @ 0700. TEST TELEGRAPH @ 0714.

TIME TEST @ 0745. WARMING MAIN ENG & TESTING GEAR @ 0700.

WATCH ENGR'S SIGNATURE -

McDonnell

0800-1200 WATCH

machinery as before Rolling main engine stop @ 0820 CTR 20240596
Fom 3814140. Dept. @ 0906 CTR. 20243000 Fom 3814300. Bells as per
Bell Book speed 18, 18072100

WATCH ENGR'S SIGNATURE -

L. Harris

CHIEF ENGINEER

BOILER WATER READINGS

STE'D	PORT
HOURS F-1431	HOURS F-1527
W-1431	W-1527
AKL	AKL
T-AKL	T-AKL
SAL.	SAL.
PHOS.	PHOS.
R.ph	R.ph

CHIEF ENGR'S SIGNATURE -

McDonnell

		WATCH								WATCH							
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200		
RUNNING TIME		240	240	240	240	240	240	MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		AFT. H. P. ROTOR BEARING					
DETENTION TIME												130 130 130 125 115 122					
REVOLUTION COUNTER (END OF WATCH)		2028	2030	2032	2033	2034	2034	MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		FORWARD L. P. ROTOR BEARING					
TOTAL REVOLUTIONS (FOR WATCH)		0700	3540	6540	4540	2510	8960					125 130 130 115 116 110					
AVERAGE RPM		96.0	95.2	95.8	33.2	33.2	26.7	MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		AFT. L. P. ROTOR BEARING					
F.O. METER (END OF WATCH)		1151	1151	1152	1152	1152	1152					125 130 125 115 115 110					
F.O. CONSUMED		2680	2790	2650	2180	920	860	MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		HOTTEST GEAR BEARING FORWARD					
												146 150 148 130 112 120					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		HOTTEST GEAR BEARING AFT					
												138 140 140 130 115 118					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		AUX. COND. CONDENSATE					
												90 90 92 82 90 94					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		1ST STAGE FEED WATER HEATER					
												170 175 175 98 95 90					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		D. C. FEED. WATER HEATER					
												238 238 238 238 238 238					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		3RD STAGE FEED WATER HEATER					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		F.O. TO BURNERS					
												130 134 125 175 100 125					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		F. O. BACK PRESSURE					
												- - - - -					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		AIR TO FURNACE					
												4" 4 4" 2" 3.2 2"					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		UPTAKE					
												- - - - -					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		MAIN STEAM					
												460 460 460 460 460 460					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		SUPER HEAT					
												715 718 720 - - -					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		F.O. TO BURNERS					
												190 190 190 150 150 150					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		F.O. TEMP. IN SETTLING TANKS					
												110/110 108/118 106/90 125/93 98/96 106/90					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		PORT BOILER UPTAKE					
												300 300 305 280 290 305					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		STBD. BOILER UPTAKE					
												310 290 300 290 282 300					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		ENGINE ROOM TEMPERATURE					
												86 85 87 86 85 86					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		FIRE ROOM TEMPERATURE					
												86 85 87 86 85 86					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		NOZZLES IN USE					
												18 18 18 18 18 18					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		NO. OF BURNERS IN USE					
												6 6 6 2 2 2					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		BURNER TIP SIZE					
												5 1/65 5 1/65 5 1/65 5 1/65 5 1/65 5 1/65					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		CO2 % PORT BOILER					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		CO2 % STBD. BOILER					
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		OIL LEVEL MAIN SUMP					
												2' 1" 2' 1" 2' 1" 2' 0" 2' 2' 8"					

GENERATORS												FUEL - WATER AND LUBE OIL					
WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL	WATER	LUBE OIL	ON HAND AT START OF DAY	EVAPORATED OR RECEIVED
1200 TO 1600	3	1200	460	715	8	136	110		64	850	850	235	METER AT NOON	11525890			
	4	1200	460	715	10	135	116		45	850	850	235	METER PREVIOUS NOON	11813810			
1600 TO 2000	3	1200	460	718	8	136	110		64	750	800	235	CONSUMED BY METER	12080			
	4	1200	460	718	10	135	116		45	700	650	235	ON HAND AT START OF DAY				
2000 TO 2400	3	1200	460	720	9	130	110		64	750	700	235	ON HAND AT START OF DAY				
	4	1200	460	720	10	135	118		44	700	650	235	EXPENDED DURING DAY				
2400 TO 0400	3	1200	460	610	9	130	110		64	800	800	235	EXPENDED DURING DAY				
	4	1200	460	610	10	135	116		44	600	600	235	REMAINING ON BOARD				
0400 TO 0800	3	1200	460	520	8	130	110		64	650	650	235	ON HAND AT START OF DAY				
	4	1200	460	520	10	138	116		45	660	650	235	EVAPORATED OR RECEIVED				
0800 TO 1200	3	1200	460	610	9	130	108		44	750	750	235	ON HAND				
	4	1200	460	610	10	135	116		44	750	750	235	CONSUMED				
LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)												L.O. CENTRIFUGE - HOURS OPERATED					
												1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
												4	4	4	4	4	4
												SUMMARY					
												RUNNING TIME		PERCENT OF SLIP			
												DETENTION TIME		BBL FUEL/MI			
												TOTAL REVOLUTIONS		WIND DIRECTION			
												AVERAGE R.P.M.		STATE OF SEA			
												TOTAL MILES BY ENGINE		STATE OF WEATHER			
												TOTAL MILES BY OBSERVATION					

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES - MACH. IN OPERATION #3 & #4 BOILERS, MAIN FEED PUMPS, F.O. S. PUMPS, #3 & #4 GEN. AIR COMP. AUX. COND. PUMPS, AUX. AIR EFFECT, MAIN TURBINES, #3 MAIN COND. PUMP, MAIN CIRC. F.O. S. PUMP, PURIFIER, MAIN #2 AIR COMP. & #3 POT. WATER PUMP, MAIN AIR EFFECT. CLEANED #1 BURNER & STBD. F.O. DISCH. STRAINER. PUMPED INBD SETTLER FROM #4 D.B. P&S. FIRE DRILL @ 1400. SECURE FROM FIRE DRILL @ 1415. ABANDON SHIP DRILL @ 1415. SECURE FROM ALL DRILLS @ 1427. TEST RUN FIRE PUMP @ 1454.

1600-2000 WATCH

MAIN & AUX. COND. HIGH. PUMPED BILGES. WATCH ENGR'S SIGNATURE - *M. L. GORDON*

UNDERWAY ON 18 NOZZLES. MACH. IN OPERATION AS BEFORE. BLEW TUBES #3 & 4 BARS. CHANGE #3 FUEL BURNER. CLEAN F.O. SUCT. STRAINER. CHANGE SUCT. TO STBD INBOARD SETTLER.

2000-2400 WATCH

COND. UNDERWAY 18 Nozzles machinery in operation as before changed & cleaned F.O. Burner & Disch. strainer. Pumped F.O. Sett. outbd. H.S. from #4 P & S F.O. TKS. Stby @ 1154 Man overboard Bells as per Bell Book.

WATCH ENGR'S SIGNATURE - *Karsten*

2400-0400 WATCH

MACHINERY AS BEFORE EXCEPT. EMERGENCY ALARM MAN O'BOARD @ 2354. BELLS AS PER BELL BOOK. PUMPED UP F.O. SETTLER INBD FROM #4 P&S D.B. REDUCED F.O. TEMP AT BURNERS TO 150°F. USING NS. OIL. BILGES DRY.

WATCH ENGR'S SIGNATURE - *L. Harris*

0400-0800 WATCH

MACHINERY AS BEFORE. EMERGENCY ALARM STILL IN EFFECT. MAN O'BOARD BELLS AS PER BELL BOOK.

WATCH ENGR'S SIGNATURE - *M. L. Gordon*

0800-1200 WATCH

Machinery in operation as before Bells as per Bell Book. EMERGENCY ALARM still in effect man o'board Bells as per Bell Book.

WATCH ENGR'S SIGNATURE - *Karsten*

CHIEF ENGINEER

WATCH ENGR'S SIGNATURE - *L. Harris*

BOILER WATER READINGS

STB'D PORT
F - 1155 F - 1557
HOURS W - 1455 HOURS W - 1507

AKL 7.93 AKL 8.18

T-AKL 13.43 T-AKL 11.68

SAL. 4.97 SAL. 1.66

PHOS. 30 PHOS. 30

R.ph 11 R.ph 11

CHIEF ENGR'S SIGNATURE - *M. L. Gordon*

		WATCH								WATCH								
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			
RUNNING TIME		240	240	260	260	260	240	MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		AFT. H. P. ROTOR BEARING	128	132	132	130	130	130
DETENTION TIME												FORWARD L. P. ROTOR BEARING	115	135	135	130	132	132
REVOLUTION COUNTER (END OF WATCH)		2036	2037	2040	2042	2044	2047					AFT. L. P. ROTOR BEARING	120	125	125	125	127	126
TOTAL REVOLUTIONS (FOR WATCH)		12610	14660	24470	24450	24430	22530					HOTTEST GEAR BEARING FORWARD	138		148	148	147	148
AVERAGE RPM		52.5	60.8	94.1	94.0	94.0	93.9					HOTTEST GEAR BEARING AFT	132		140	140	140	140
F.O. METER (END OF WATCH)		1152	1152	1153	1153	1153	1154					AUX. CONO. CONDENSATE	88	92	110	104	112	114
F.O. CONSUMED		1260	620	2940	3020	3050	2820					1ST STAGE FEED WATER HEATER	145	170	170	170	170	170
MACHINERY PARTICULARS		PRESSURES	THROTTLE	430	420	420	420	420	420	0. C. FEED WATER HEATER	233	236	238	238	38	238		
			H.P. AHEAD	110	420	420	420	420	420	3RD STAGE FEED L.P. WATER HEATER - H.P.				135	135	135		
			L.P. AHEAD	2.5"	2.1"	2.1	2.0	2.0	2.0	F.O. TO BURNERS	210	160	125	125	135	135		
			VACUUM	29.6	29.7	29.4	29.2	29	28"	F. O. BACK PRESSURE			-			-		
			L.O. TO TURBINES	13	12.5	12.4	12.6	12.5	12.5	AIR TO FURNACE	2"	3.2	4"	4.5"	4"	4"		
			AUX. STEAM	130	145	145	145	145	140	UPTAKE			-			-		
			BACK PRESSURE	9	9	9	9	9	9	MAIN STEAM	450	460	460	460	460	460		
			GLAND STEAM	1.8	1.5	1.5	1.4	1.3	1.0	SUPER HEAT	645	730	725		715	725		
			H.P. BLEEDER	-	78	70	74	76	75	F.O. TO BURNERS	150	150	150	150	150	150		
			L.P. BLEEDER	-	6	6	6	6	6	F.O. TEMP. IN SETTLING TANKS	123		100	100		110		
MACHINERY PARTICULARS		TEMPERATURES	L.P. BLEEDER	-	12"	12"	12"	12"	12"	PORT BOILER UPTAKE	290	300	300	300	315	300		
			STEAM AT THROTTLE	645	730	726	720	715	725	STBD. BOILER UPTAKE	280	285	295	295	300	295		
			L.P. EXHAUST	106	102	104	106	108	106	ENGINE ROOM TEMPERATURE	90	86	90	91	92	94		
			CONDENSATE	90	102	105	102	110	104	FIRE ROOM TEMPERATURE	90	86	90	91	92	94		
			CIRC. WATER IN	74	75	76	76	80	78	NOZZLES IN USE	18	18	18	18	18	18		
			CIRC. WATER OUT	84	84	86	86	90	86	NO. OF BURNERS IN USE	2	6	6	6	6	6		
			L.O. TO COOLERS	126	126	128	128	128	128	BURNER TIP SIZE	5/55	5/55	5/55	5/55	5/55	5/55		
			L.O. FROM COOLERS	112	110	110	110	110	110	CO ₂ % PORT BOILER								
			TEMPERATURE THRUST BEARING	112	112	115	115	115	115	CO ₂ % STBD. BOILER								
			FORWARD H.P. ROTOR BEARING	120	120	120	120	122	120	OIL LEVEL MAIN SUMP	2.1"	2.1"	2.0"	2.0"	2.1	2.1"		

WATCH	GENERATORS												FUEL - WATER AND LUBE OIL						
	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL		DOMESTIC WATER		LUBE OIL		
1200 TO 1600	3	1200	450	645	9	130	108		64	800	830	235	METER AT NOON	11540690	ON HAND AT START OF DAY				
	4	1200	450	645	10	135	116		45	750	750	235	METER PREVIOUS NOON	11525840	EVAPORATED OR RECEIVED				
1600 TO 2000	3	1200	460	730	8	130	110		64	800	850	235	CONSUMED BY METER	14800	ON HAND				
	4	1200	460	730	10	138	118		45	750	700	234	ON HAND AT START OF DAY		CONSUMED				
2000 TO 2400	3	1200	460	725	9	130	110		64	1300	1300	235	RECEIVED DURING DAY		ON HAND AT START OF DAY				
	4	1200	460	725	10	136	118		44	1250	1250	235	EXPENDED DURING DAY		RECEIVED				
2400 TO 0400	3	1200	460	720	9	130	110		64	1350	1350	235	REMAINING ON BOARD		ON HAND				
	1												ON HAND AT START OF DAY		CONSUMED				
0400 TO 0800	4	1200	460	720	10	136	118		44	1250	1250	235	EVAPORATED OR RECEIVED						
	3	1200	460	715	8	134	114		63	1250	1250	235	ON HAND						
0800 TO 1200	4	1200	460	715	9	145	124		43	1250	1250	235	CONSUMED						
	3	1200	460	725	9	130	108		64	1600	1600	235	LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)						
L.O. CENTRIFUGE - HOURS OPERATED																			
													1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200	
													4	4	4 1/3	4 1/3	4 1/3	4	
SUMMARY																			
RUNNING TIME														PERCENT OF SLIP					
DETENTION TIME														BBL FUEL/MI					
TOTAL REVOLUTIONS														WIND DIRECTION					
AVERAGE R.P.M.														STATE OF SEA					
TOTAL MILES BY ENGINE														STATE OF WEATHER					
TOTAL MILES BY OBSERVATION																			

REMARKS

1200-1600 WATCH

MACH. IN USE AS BEFORE - HT @ 60 TURNS. #3 & #4 BURNERS, F.O. BLOWERS, F.O.S. PUMPS, #1 GEN, AUX. COND. PUMP, OUT. SIBO, #3 PAT. W. PUMP, MAINT. BOWERS, #2 MAIN COND., #1 MAIN SIBO, L.O. SERVICE PUMP, #2 AIR COMP, MADE AUX. AIR EJECT. PUMPED BILGES. CLEANED STBD F.O. DISC. STRAINER. BELLS AS PER BELL BOOK. EMERGENCY MAN O'BOARD IN EFFECT - MANEUVERING COND. TIDE. 1ST ASST. CHAULING F.O. TRANSFER PUMP #2. STBY FEED PUMP INOPERATIVE. MAIN COND. 14 G/G. WATCH ENGR'S SIGNATURE - M. J. [Signature]

1600-2000 WATCH

MACHINERY IN USE AS BEFORE. BELLS AS PER BELL BOOK. DEPARTURE FROM MAN OVERBOARD AREA @ 1739 UNDERWAY ON 12 NOZZLES. PORT. COUNTER = 20370710 - PORT F.O. = 3822510 @ 1739. STBD. - COUNTER = 21142580 - STBD F.O. = 7705730 @ 1739.

COND. 41 G.P.G.

2000-2400 WATCH

MACH. IN USE AS BEFORE. 18 NOZZLES TRAN. POWER LOSS AT @ 2200. Eng. utility men completed overhauling F.O. TRAN. PUMP. Retard clock 20 min. @ 2300. WATCH ENGR'S SIGNATURE - Karsten

2400-0400 WATCH

RETARD CLOCK 20 MIN @ 0100. CLEANED #2 BURNER + STBD F.O. DIS. STRAINER. HELD ENG. CASUALTY DRILL B-5. HIGH WATER IN BOILER. FROM 0100 TO 0130. 4 MEN. BRIDGE NOTIFIED. PUMPED OUT B'D. SETTLER FROM #4 P.S. D.B. PUMPED BILGES. ROUTINE WATCH. WATCH ENGR'S SIGNATURE - L. Harris

0400-0800 WATCH

COND. 41 G/G. MACHINERY IN USE AS BEFORE. RETARD CLOCKS 20 MIN @ 0430. HELD CASUALTY DRILL B-5. HIGH WATER IN BOILER FROM 0500 TO 0530. 4 MEN. CLEAN F.O. SUCT. STRAINER. CLEANED #4 BURNER. WATCH ENGR'S SIGNATURE - M. J. [Signature]

0800-1200 WATCH

COND. 41 G.P.G. MACHINERY IN OPERATION AS BEFORE. CHANGED & CLEANED F.O. BURNERS & DISCH. STRAINERS BLOW TUBES ON PORT & STBD. BLOWERS @ 0800. HELD ENG. CASUALTY DRILL B-5. HIGH WATER IN BOILER. FOUR MEN PRESENT. BRIDGE NOTIFIED. Eng. utility men Repacking F.O. TRAN. PUMP. WATCH ENGR'S SIGNATURE - Karsten

CHIEF ENGINEER

BOILER WATER READINGS

STB'D	PORT
HOURS F-1479	HOURS F-1515
W-1479	W-1515
AKL 10.51	AKL 8.18
T-AKL 13.43	T-AKL 10.51
SAL. 4.97	SAL. 1.66
PEOS. 30	PHOS. 20
R.ph 11	P 11

CHIEF ENGR'S SIGNATURE - [Signature]

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE					
GEN. JOHN POPE (T-AP10)		7B.		OKINAWA				P-2-G		JAN. 27-28-1967					
		WATCH						WATCH							
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME		240	240	240	240	240	240			130	130	134	134	130	132
DETENTION TIME															
REVOLUTION COUNTER (END OF WATCH)		2049 4600	2051 7360	2054 6190	2056 2990	2058 6650	2060 8420			132	135	134	132	132	132
TOTAL REVOLUTIONS (FOR WATCH)		22530	22760	22830	22800	22660	22770			125	125	126	125	127	126
AVERAGE RPM		93.9	94.8	95.1	95.0	94.4	94.9			148	148	148	148	148	148
F.O. METER (END OF WATCH)		1154 3520	1154 6340	1154 9160	1155 1980	1155 4780	1155 7630			143	142	142	142	142	142
F.O. CONSUMED		2830	2820	2820	2820	2800	2850			106	112	114	114	114	116
										170	170	170	170	170	170
										238	238	238	238	238	238
										135	135	135	135	135	135
										130	135	135	130	135	135
													3.5		
										4.5"	4.3"	4.3	4.3"	4.3"	4.3"
										650	460	460	460	460	460
										720	725	725	720	725	725
										150	150	150	150	150	150
										112 100	104 90	104 96	103 90	100 95	100 100
										300	305	305	300	310	300
										300	295	290	290	295	285
										93	92	92	92	92	96
										93	92	92	92	92	96
										18	18	18	18	18	18
										6	6	6	6	6	6
										5 1/55	5 1/55	5 1/55	5 1/55	5 1/55	5 1/55
										2 1"	2 1"	2 1"	2 1"	2 1"	2 1"

GENERATORS												
WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	3	1200	460	720	9	132	110		64	1550	1550	235
	4	1200	460	725	10	138	122		44	1550	1550	235
1600 TO 2000	3	1200	460	725	9	134	110		64	1425	1400	235
	4	1200	460	725	10	144	124		44	1450	1450	235
2000 TO 2400	3	1200	460	725	9	134	112		64	1500	1500	235
	4	1200	460	725	10	144	124		44	1500	1500	235
2400 TO 0400	3	1200	460	720	9	134	112		64	1400	1400	235
	4	1200	460	720	10	142	124		44	1400	1400	235
0400 TO 0800	3	1200	460	725	9	132	112		64	1550	1550	235
	4	1200	460	725	10	144	124		44	1500	1500	235
0800 TO 1200	3	1200	460	725	9	132	110		64	1500	1500	235
	4	1200	460	725	10	144	124		42	1450	1450	235

FUEL - WATER AND LUBE OIL					
FUEL OIL		BOILER WATER		LUBE OIL	
METER AT NOON	11552630	ON HAND AT START OF DAY			
METER PREVIOUS NOON	11540690	EVAPORATED OR RECEIVED			
CONSUMED BY METER	16940	ON HAND			
ON HAND AT START OF DAY		CONSUMED			
RECEIVED DURING DAY		ON HAND AT START OF DAY			
EXPENDED DURING DAY		RECEIVED			
REMAINING ON BOARD		ON HAND			
ON HAND AT START OF DAY		CONSUMED			
EVAPORATED OR RECEIVED					
ON HAND					
CONSUMED					
LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)					
L.O. CENTRIFUGE - HOURS OPERATED					
1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
4	4	2	4	4	4
SUMMARY					
RUNNING TIME		PERCENT OF SLIP			
DETENTION TIME		BBL FUEL/MI			
TOTAL REVOLUTIONS		WIND DIRECTION			
AVERAGE R.P.M.		STATE OF SEA			
TOTAL MILES BY ENGINE		STATE OF WEATHER			
TOTAL MILES BY OBSERVATION					

REMARKS

1200-1600 WATCH

UNDERWAY 18 NOZZLES. MACH. IN USE. #3 & #4 BLOWERS, F.O. BLOWERS, F.O. SERVICE PUMPS, MAIN FEED PUMPS, F.O. HEATERS, #3 & #4 TURBO GEN, AUT COND. PUMP, AUT GYRO, AUT AIR EJECT. MAIN CIRC. #3 MAIN COND. PUMP. MAIN AIR EJECT.

CLEANED #1 BURNER ATOMIZER & F.O. DISC. STRAINER. PUMPED UP SETTERS FROM #4 P.S. D.B. PUMPED BILGES. TEST RUN L.O. & FEED ST'BYP PUMPS. NORMAL STEAMING WATCH.

OIL LEAK GOV. VALVE PISTON ROD #3 GEN. UTILITY MEN WORKING ON TRANSFER PUMP.

MAIN COND. 41 GPG.

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

UNDERWAY ON 18 NOZZLES. MACH. IN USE AS BEFORE. BLOW TUBES ON #3 & #4 BLS. CHANGE #3 BURNER. ADD PHOS. COMPOUND TO #3 & #4 BLS. CHANGE F.O. SUCT. STRAINER.

MAIN COND. 41 GPG.

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

UNDERWAY ON 18 NOZZLES. MACH. IN USE AS BEFORE. BLOW TUBES ON #3 & #4 BLS. CHANGE #3 BURNER. ADD PHOS. COMPOUND TO #3 & #4 BLS.

UNDERWAY MACHINERY IN OPERATION AS BEFORE CHANGED & CLEANED BURNER & DISC. STRAINER. SEA. NO. Purifier @ 2000 for cleaning same on line @ 2200.

MAIN COND. 41 GPG.

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

MACHINERY IN OPERATION AS BEFORE.

CLEAN #2 BURNER ATOMIZER & F.O. DISC. STRAINER.

PUMPED INBD SETTER FROM #4 P.S. D.B.

ROUTINE INSPECTION OF MACHINERY & SPACES.

BILGES AT SAFE LEVEL.

COND. 0.41 GPG.

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

MACHINERY IN OPERATION AS BEFORE.

CLEAN #4 FUEL OIL BURNER. & F.O. SUCT. STRAINER.

ADD PHOS. COMPOUND TO #4 BLR.

MAIN COND. 41 GPG.

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

MACHINERY IN OPERATION AS BEFORE CHANGED F.O. BURNER & DISC. STRAINER. PUMPED BILGES.

CHIEF ENGINEER

WATCH ENGR'S SIGNATURE-

BOILER WATER READINGS

STB'D ~~X~~ - PORT ~~X~~ -
HOURS ~~X~~ - 1503 HOURS ~~X~~ - 1599

AKL 10.51 AKL 7.59

T-AKL 12.26 T-AKL 9.93

SAL. 4.56 SAL. 1.66

PHOS. 40 PHOS. 20

R.ph 11 R.ph 11

CHIEF ENGR'S SIGNATURE-

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE					
GEN. JOHN POPE		7B		OKINAWA				P-2-G		Jan 28-29-1967					
		WATCH								WATCH					
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME		240	240	240	240	240	242	MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING	132	132	132	132	132	V
DETENTION TIME									FORWARD L. P. ROTOR BEARING	132	135	132	132	132	A
REVOLUTION COUNTER (END OF WATCH)		2063 1120	2065 3740	2067 6570	2069 9420	2072 2180	2074 4500		AFT. L. P. ROTOR BEARING	125	130	125	125	127	R
TOTAL REVOLUTIONS (FOR WATCH)		22700	22620	22830	22850	22760	22320		HOTTEST GEAR BEARING FORWARD	150	148	148	148	148	P
AVERAGE RPM		94.5	94.3	95.1	95.2	94.8	92.2	HOTTEST GEAR BEARING AFT	140	142	142	142	142	HS	
F.O. METER (END OF WATCH)		1156 2470	1156 3310	1156 6120	1156 8870	1157 1850	1157 4660	AUX. COND. CONDENSATE	110	118	116	116	114		
F.O. CONSUMED		2840	2840	2810	2870	2960	2810	1ST STAGE FEED WATER HEATER	170	170	170	170	170		
								D. C. FEED WATER HEATER	238	238	238	238	238	238	
								3RD STAGE FEED HP WATER HEATER	1051 135	1051 135	1051 135	1051 135	1051 135		
								F.O. TO BURNERS	130	135	135	130	135	V	
								F. O. BACK PRESSURE						2	
								AIR TO FURNACE	4.5"	4.4	4.4"	4.5"	4.5"	1	
								UPTAKE						HS	
								MAIN STEAM	460	460	460	460	460	46	
								SUPER HEAT	725	730	730	720	725		
								F.O. TO BURNERS	150	150	150	150	150	150	
								F.O. TEMP. IN SETTLING TANKS	100 85	102 88	104 90	100 90	100 90		
								PORT BOILER UPTAKE	315	305	310	305	315		
								STBD. BOILER UPTAKE	295	290	295	300	295		
								ENGINE ROOM TEMPERATURE	99	96	97	96	96	97	
								FIRE ROOM TEMPERATURE	99	98	97	96	96	97	
								NOZZLES IN USE	18	18	18	18	17		
								NO. OF BURNERS IN USE	6	6	6	6	6		
								BURNER TIP SIZE	5 1/55	5 1/55	5 1/55	5 1/55	5 1/55		
								CO2 % PORT BOILER							
								CO2 % STBD. BOILER							
								OIL LEVEL MAIN SUMP	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	

GENERATORS													FUEL - WATER AND LUBE OIL						
WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL		DOMESTIC WATER		LUBE OIL		
													METER AT NOON	METER PREVIOUS NOON	ON HAND AT START OF DAY	EVAPORATED OR RECEIVED	ON HAND	CONSUMED	ON HAND AT START OF DAY
1200 TO 1600	3	1200	460	725	9	135	112	-	64	1500	1500	235		1157460	11557630				
	4	1200	460	725	10	144	126		40	1500	1500	235		17030					
1600 TO 2000	3	1200	460	730	9	134	114		64	1400	1400	235							
	4	1200	460	730	10	146	130		40	1450	1450	235							
2000 TO 2400	3	1200	460	730	9	134	114		64	1500	1500	235							
	4	1200	460	730	10	146	128		40	1450	1450	235							
2400 TO 0400	3	1200	460	720	9	134	112		64	1300	1300	235							
	4	1200	460	720	10	144	126		40	1300	1300	235							
0400 TO 0800	3	1200	460	730	9	134	112		64	1500	1500	235							
	4	1200	460	730	10	144	126		40	1500	1500	235							
0800	3	1200	460	730	9	132	112		64	1400	1400	235							
	4	1200	460	730	10	144	124		40	1400	1400	235							
LOW PRESS. EVAPORATORS (No. of hrs. operated)(Fresh water made gal.)													L.O. CENTRIFUGE - HOURS OPERATED						
													1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200	
													4	4	4	4	4	4	
SUMMARY																			
RUNNING TIME															PERCENT OF SLIP				
DETENTION TIME															BBL FUEL/MI				
TOTAL REVOLUTIONS															WIND DIRECTION				
AVERAGE R.P.M.															STATE OF SEA				
TOTAL MILES BY ENGINE															STATE OF WEATHER				
TOTAL MILES BY OBSERVATION																			

LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gal.)

L.O. CENTRIFUGE - HOURS OPERATED

1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
4	4	4	4	4	4

SUMMARY

RUNNING TIME		PERCENT OF SLIP	
DETENTION TIME		BBL FUEL/MI	
TOTAL REVOLUTIONS		WIND DIRECTION	
AVERAGE R.P.M.		STATE OF SEA	
TOTAL MILES BY ENGINE		STATE OF WEATHER	
TOTAL MILES BY OBSERVATION			

REMARKS

1200-1600 WATCH

UNDERWAY 18 NOZ. MACH. IN USE - #3 & #4 BOILERS, F.O. BLOWERS, F.O.S. PUMPS, MAIN FEED PUMPS, #3 & #4 TURBO. GEN. AUX. C.A.C., AUX. COND. PUMPS, #3 MAIN COND. PUMP, MAIN CIRC., #2 AIR COMP. #3 P.T. PUMP. CLEANED #1 F.O. BURNER & ST'D F.O. DIS. STRAINER. PUMPED O'BOARD SETTLER FROM #4 & D.B. CLEANED PURIFIER ELEMENT. PUMPED BILGES. TEST OPERATE ST'BY. L.O., F.O., & FEED PUMPS.

MAIN COND.

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

UNDERWAY ON 18 NOZ. MACH. IN USE AS BEFORE. BLOW TUBES IN #3 & #4 BLRS. #3 STD BLR. BOTT. BLOW TUB. CONT. EVAP. 1 HR. CLEAN #4 BURNER

MAIN COND. - HIG/G

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

UNDERWAY MACHINERY IN OPERATION AS BEFORE CHANGED & CLEANED F.O. BURNER & DISCH. STRAINER

MAIN COND. - HIG/G

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

MACHINERY IN OPERATION AS BEFORE. CLEANED #3 BURNER ATOMIZER & ST'D F.O. DISC. STRAINER. PUMPED SETTLER IN'BD FROM #4 & D.B. & 4 PES. DEEP TANKS. SOUNDED SETTLERS. PUMPED BILGES. ROUTINE WATCH. TEST RUN L.O., FEED & F.O. ST'BY PUMPS.

COND. HIG/G

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

UNDERWAY ON 18 NOZ. MACH. IN USE AS BEFORE. CLEAN #3 BURNER & F.O. SUCT. STRAINER. BOTT. BLOW #3 BLR. 2 HRS. ENG. & FIREROOM BLOWERS OFF 0515 TO 0600

MAIN COND. - HIG/G

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

MACHINERY IN OPERATION AS BEFORE CHANGED & CLEANED F.O. BURNERS & DISCH. STRAINER. Reduced speed ^{from 90} to 90 RPM @ 1100, 90 RPM Bridge. Cond. 3 @ 1000. Cond. 2 @ 1130 special sea water. Arrived @ 1142 CTR. 20744500 From 11574660. Bells as per Bell Book

MAIN COND. - HIG/G

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

BOILER WATER READINGS

STB'D PORT
HOURS F-1527 F-1623
W-1527 HOURS W-1623
AKL 8.76 AKL 9.34
T-AKL 11.10 T-AKL 12.85
SAL. 3.73 SAL. 2.49
PHOS. 30 PHOS. 30
R.ph 11 R.ph 11

CHIEF ENGR'S SIGNATURE-

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE	
GEN. JOHN POPE		70		OKINAWA		VONG TAO				JAN-29-50-67	

	WATCH							WATCH							
	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200		
RUNNING TIME							MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING							
DETENTION TIME								FORWARD L. P. ROTOR BEARING							
REVOLUTION COUNTER (END OF WATCH)								AFT. L. P. ROTOR BEARING							
TOTAL REVOLUTIONS (FOR WATCH)								HOTTEST GEAR BEARING FORWARD							
AVERAGE RPM								HOTTEST GEAR BEARING AFT							
F.O. METER (END OF WATCH)	1137	1137	1157	1137	1137	1137		AUX. COND. CONDENSATE	100	112	114	112	114	112	
F.O. CONSUMED	1070	630	630	640	630	620		1ST STAGE FEED WATER HEATER	100	100	100	100	100	100	
								D. C. FEED WATER HEATER	238	238	238	238	238	238	
								3RD STAGE FEED WATER HEATER							
								F.O. TO BURNERS	135	135	125	120	120	120	
PRESSURES	THROTTLE	-					TEMPERATURES	F. O. BACK PRESSURE	4	4					
	H.P. AHEAD	-						AIR TO FURNACE	2"	2"	2"	2"	2"	2"	
	L.P. AHEAD	-						UPTAKE							
	VACUUM	28.9	28.9	28.9	24.5	24.5		24"	MAIN STEAM	460	460	450	450	450	450
	L.O. TO TURBINES	13	13	13	13	13		13	SUPER HEAT	650	650	650	650	650	650
	AUX. STEAM	145	125	130	130	130		125	F.O. TO BURNERS	150	150	150	150	150	150
	BACK PRESSURE	9	9	9	9	9		9	F.O. TEMP. IN SETTLING TANKS	100	100	100	98	102	100
	GLAND STEAM	2.6	2.6	2.5	2.5	2.5		2.0"	PORT BOILER UPTAKE	220	280	280	280	280	280
	H.P. BLEEDER	-							STBD. BOILER UPTAKE	220	290	280	270	285	280
	I.P. BLEEDER	-							ENGINE ROOM TEMPERATURE	97	92	92	91	90	94
L.P. BLEEDER	-						FIRE ROOM TEMPERATURE	97	92	92	91	90	94		
TEMPERATURES	STEAM AT THROTTLE	-					MISCELLANEOUS	NOZZLES IN USE	-						
	L.P. EXHAUST	-						NO. OF BURNERS IN USE	2	2	2	2	2	2	
	CONDENSATE	90	90	89	92	90		92	BURNER TIP SIZE	5 3/60	5 3/60	5 3/60	5 3/60	5 3/60	5 3/60
	CIRC. WATER IN	82	82	82	82	82		82	CO2 % PORT BOILER						
	CIRC. WATER OUT	92	82	82	82	82		82	CO2 % STBD. BOILER						
	L.O. TO COOLERS	118	118	112	112	112		112	OIL LEVEL MAIN SUMP	2'	2'	2'	2'	2'	2'
	L.O. FROM COOLERS	110	110	109	110	110		110							
	TEMPERATURE THRUST BEARING	-													
	FORWARD H.P. ROTOR BEARING	-													

WATCH	GENERATORS											FUEL - WATER AND LUBE OIL					
	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL	WATER	LUBE OIL		
1200 TO 1600	3	1200	460	650	9	130	110		64	1350	1350	235	METER AT NOON	11578860	ON HAND AT START OF DAY		
	4	1200	460	650	12	142	126		40	1350	1350	235	METER PREVIOUS NOON	11574660	EVAPORATED OR RECEIVED		
1600 TO 2000	3	1200	460	650	9	134	112		64	1300	1300	235	CONSUMED BY METER	4200	ON HAND		
	4	1200	460	650	10	145	130		40	1350	1350	235	ON HAND AT START OF DAY		CONSUMED		
2000 TO 2400	3	1200	450	650	9	132	112		64	1300	1300	235	RECEIVED DURING DAY		ON HAND AT START OF DAY		
	4	1200	450	650	10	144	126		40	1320	1300	235	EXPENDED DURING DAY		RECEIVED		
2400 TO 0400	3	1200	450	650	9	130	110		64	1250	1250	235	RECEIVED ON BOARD		ON HAND		
	4	1200	460	650	10	144	124		40	1250	1250	235	ON HAND AT START OF DAY		CONSUMED		
0400 TO 0800	3	1200	460	650	9	134	112		64	1350	1350	235	EVAPORATED OR RECEIVED				
	4	1200	460	650	10	145	128		40	1350	1350	235	ON HAND				
0800 TO 1200	3	1200	450	650	9	130	110		64	1300	1300	235	CONSUMED				
	4	1200	450	650	10	144	126		40	1350	1350	235					

L.O. CENTRIFUGE - HOURS OPERATED					
1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
4	4	4	4	4	4

SUMMARY	
RUNNING TIME	PERCENT OF SLIP
DETENTION TIME	BBL FUEL/MI
TOTAL REVOLUTIONS	WIND DIRECTION
AVERAGE R.P.M.	STATE OF SEA
TOTAL MILES BY ENGINE	STATE OF WEATHER
TOTAL MILES BY OBSERVATION	

REMARKS

1200-1600 WATCH

ANCHOR WATCH- #3 & #4 BOILERS, MAINFEED PUMPS, F.D. BLOWERS, F.D. SERVICE PUMPS, #3 & #4 TURBO. SERV. AIR COMP. AIR COMP, MAIN TURBINES OIL JACKING BEAR, #5 MAIN COMP. PUMP, #2 AIR COMP. & OIL PURIFIER. BELLS AS PER BELL BOOK.
 F.W.E. @ 130%. FOM- S- 7728560 P- 3846810
 CATR- S- 21535310 P- 20747610
 VACUUM ON MAIN ENGINES. BILGES @ SAFE LEVEL.

WATCH ENGR'S SIGNATURE- *W. S. Jones*

1600-2000 WATCH

ANCHOR WATCH- MACHINERY RUNNING AS BEFORE
 SECURE W.T. ESCAPE HATCH FROM SHAFT ALLEY SIDE. MAINTAIN STRICT SECURITY WATCH.

MAIN COND. 41 G.P.S.

WATCH ENGR'S SIGNATURE- *Karsten*

2000-2400 WATCH

At Anchor machinery inspection as before changed & cleaned F.O. Burner & Disc. strainer

MAIN COND. 41 G.P.S.

WATCH ENGR'S SIGNATURE- *L. Harris*

2400-0400 WATCH

MACHINERY IN OPERATION AS BEFORE.
 OPENED #4 DEEP TANK P&S EQUALIZER VALVE.
 ROUTINE INSPECTION OF MACHINERY AND SPACES. BILGES AT SAFE LEVEL.
 CHANGED F.O. BURNER & ST. DISC. STRAINER.

COND. 41 G.P.S.

WATCH ENGR'S SIGNATURE- *W. S. Jones*

0400-0800 WATCH

MACHINERY IN OPERATION AS BEFORE
 CHANGE #3 F.O. BURNER & SUCT. STRAINER

MAIN COND. 41 G.P.S.

WATCH ENGR'S SIGNATURE- *Karsten*

0800-1200 WATCH

Machinery inspection as before Jarrett Pump & Pump Reversed Leaking Nipple on cooling water line to spring bearing parts changed & cleaned L.G. strainers on #3, & #4 S.S. Cond's. changed & cleaned F.O. Burner Fuel Boiler & Disc. strainer. Sec #2 Evap. @ 1125.

MAIN COND. 41 G.P.S.

WATCH ENGR'S SIGNATURE- *L. Harris*

CHIEF ENGINEER

BOILER WATER READINGS

STB'D	PORT
HOURS F-1551	HOURS F-1647
W-1551	W-1647
AKL 6.42	AKL 7.59
T-AKL 9.34	T-AKL 11.10
SAL. 2.90	SAL. 2.07
PHOS. 30	PHOS. 30
R.ph 11	R.ph 11

CHIEF ENGR'S SIGNATURE- *L. Harris*

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE	
GEN. JOHN POPE		78		OKINAWA		KUNGTAW		P-2		JAN. 30-31	

	WATCH							WATCH							
	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200		
RUNNING TIME							MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING							
DETENTION TIME								FORWARD L. P. ROTOR BEARING							
REVOLUTION COUNTER (END OF WATCH)								AFT. L. P. ROTOR BEARING							
TOTAL REVOLUTIONS (FOR WATCH)								HOTTEST GEAR BEARING FORWARD							
AVERAGE RPM								HOTTEST GEAR BEARING AFT							
F.O. METER (END OF WATCH)	1157 9240	1139 9620	1158 0350		1158 0750	1158 0750		AUX. COND. CONDENSATE	110	110	112	110	112	112	
F.O. CONSUMED	380	380	730		400	340		1ST STAGE FEED WATER HEATER	95	95	95	95	95	95	
MACHINERY PARTICULARS	THROTTLE							D. C. FEED WATER HEATER	238	238	238	238	238	238	
	H.P. AHEAD							3RD STAGE FEED WATER HEATER							
	L.P. AHEAD							BOILER PARTICULARS	F.O. TO BURNERS	150	140	140	150	150	125
	VACUUM	24"	24"	24"	24"	24"	24"		F.O. BACK PRESSURE	2	2				
	L.O. TO TURBINES	13.5	13.5	13.3	13.3	13.0	13.0		AIR TO FURNACE	2"	2"	2"	2"	2"	
	AUX. STEAM	145	145	145	140	140	140		UPTAKE						
	BACK PRESSURE	9	9	9	9	9	9		MAIN STEAM	460	460	450	460	460	450
	GLAND STEAM	2.3	2.3	2.8	2.0	2	2		SUPER HEAT	650	650	650	650	650	650
	H.P. BLEEDER								F.O. TO BURNERS	150	150	150	150	150	150
	I.P. BLEEDER								F.O. TEMP. IN SETTLING TANKS	88 98	88 98	100 88	100 90	100 90	100 80
L.P. BLEEDER							PORT BOILER UPTAKE		285	290	370 355	355	390	290	
STEAM AT THROTTLE							STBD. BOILER UPTAKE		280	270	285	255	355	270	
L.P. EXHAUST							MISCELLANEOUS	ENGINE ROOM TEMPERATURE	94	92	91	90	88	94	
CONDENSATE	92	92	88	92	92	92		FIRE ROOM TEMPERATURE	94	92	91	90	88	94	
CIRC. WATER IN	82	82	80	80	81	80		NOZZLES IN USE							
CIRC. WATER OUT	82	82	82	82	82	82		NO. OF BURNERS IN USE	2	2	2	2	2	2	
L.O. TO COOLERS	112	112	110	110	112	110		BURNER TIP SIZE	53/60	53/60	53/60	53/60	53/60	53/60	
L.O. FROM COOLERS	110	110	108	108	110	108		CO ₂ % PORT BOILER							
TEMPERATURE THRUST BEARING								CO ₂ % STBD. BOILER							
FORWARD H.P. ROTOR BEARING								OIL LEVEL MAIN SUMP	2'	2'	2'	2'	2'	2'	

WATCH	GENERATORS											FUEL - WATER AND LUBE OIL			
	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL	WATER	LUBE OIL
1200 TO 1600	3	1200	460	650	9	132	110		64	1250	1250	235	METER AT NOON	11580750	ON HAND AT START OF DAY
	4	1200	460	650	10	144	128		40	1250	1250	235	METER PREVIOUS NOON	11578860	EVAPORATED OR RECEIVED
1600 TO 2000	3	1200	460	650	9	132	110		64	1200	1200	235	CONSUMED BY METER	1890	ON HAND
	4	1200	460	650	10	144	128		40	1200	1200	235	ON HAND AT START OF DAY		CONSUMED
2000 TO 2400	3	1200	460	650	9	132	110		64	1250	1250	235	RECEIVED DURING DAY		ON HAND AT START OF DAY
	4	1200	460	650	10	144	128		40	1250	1250	235	EXPENDED DURING DAY		RECEIVED
2400 TO 0400	3	1200	460	650	9	132	110		64	1250	1250	235	REMAINING ON BOARD		ON HAND
	4	1200	460	650	10	144	128		40	1250	1250	235	ON HAND AT START OF DAY		CONSUMED
0400 TO 0800	3	1200	460	650	9	132	110		64	1200	1200	235	EVAPORATED OR RECEIVED		
	4	1200	460	650	10	144	128		40	1200	1200	235	ON HAND		
0800 TO 1200	3	1200	460	650	9	132	110		64	1250	1250	235	CONSUMED		
	4	1200	460	650	10	144	128		40	1250	1250	235			

L.O. CENTRIFUGE - HOURS OPERATED					
1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
4	4	4	4	4	4

SUMMARY	
RUNNING TIME	PERCENT OF SLIP
DETENTION TIME	BBL FUEL/MI
TOTAL REVOLUTIONS	WIND DIRECTION
AVERAGE R.P.M.	STATE OF SEA
TOTAL MILES BY ENGINE	STATE OF WEATHER
TOTAL MILES BY OBSERVATION	

REMARKS

1200-1600 WATCH

PORT ANCHOR WATCH. JACKING GEAR ENGAGED, VACUUM ON MAIN ENGINES
 MACH. IN USE: #3 & #4 BOILERS, FEED, FUEL OIL SERVICE, AUX CIRC, AUX COND, #3 COND, #2 MAIN CIRC,
 #2 COMP & #3 POT. WATER PUMPS, MAIN AIR EJECT-2ND STAGE - AUX AIR EJECT.

CLEANED F.O. BURNERS & F.O. DISC. ST. STRAINER.

PUMPED SETTLER FROM #4 P.S. D.B. CLEANED FLOOR PLATES (FIREMAN).

BILGES AT SAFE LEVEL. ROUTINE INSPECTION OF MACH & SPACES.

MAIN COND. #4 G/G.

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

PORT ANCHOR WATCH MACHINERY IN USE AS BEFORE.

CLEAN OUT F.O. WATER REGULATOR BOX. EMPTY L.C. - CLEAN WICKS & REVIEW
 L.O. IN SHAFT ALLEY #4 STD SPRING BEARING.

MAIN COND. #4 G/G.

WATCH ENGR'S SIGNATURE-

2000-2400 WATCH

AT ANCHOR MACHINERY IN OPERATION AS BEFORE CHANGE POTABLE
 WATER FROM STD TO ROUTE.

MAIN COND. #1 A.P.G.

WATCH ENGR'S SIGNATURE-

2400-0400 WATCH

MACHINERY IN OPERATION AS BEFORE.

HELD ENG. CASUALTY DRILL B-6 FROM 0340 TO 0400. BRIDGE NOTIFIED - 3 MEN PRESENT

BILGES AT SAFE LEVEL. ROUTINE INSPECTION OF MACHINERY & SPACES.

COND. #4 G/G.

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

MACHINERY IN OPERATION AS BEFORE

HELD ENG. CASUALTY DRILL B-6 (FR. MAJOR F.O. LEAK) FROM 0430 TO 0500. BRIDGE NOTIFIED
 3 MEN PRESENT. CLEAN #3 BURNER-STD & #2 BURNER PORT.

MAIN COND. #1 G/G.

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

MACHINERY IN OPERATION AS BEFORE HELD ENG. CASUALTY DRILL
 B-6 FROM 0800 TO 0930 3 MEN PRESENT BRIDGE NOTIFIED. TUN C
 CHECK @ 1115.

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

BOILER WATER READINGS

STB'D	PORT
HOURS F 1575	HOURS F 1671
W 1575	W 1671
AKL 6.42	AKL 7.59
T-AKL 9.34	T-AKL 10.51
SAL. 249	SAL. 267
PHOS. 30	PHOS. 30
R.ph 11	R.ph 11

CHIEF ENGR'S SIGNATURE-

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE	
GEN. JOHN POPE		7C		VUNG TAU				P-2-G		JAN 31 1967 FEB 1 1967	

WATCH							WATCH						
	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME	0	224	240										
DETENTION TIME													
REVOLUTION COUNTER (END OF WATCH)		2077	2079										
TOTAL REVOLUTIONS (FOR WATCH)		2310	4210										
AVERAGE RPM		92.3	93.5										
F.O. METER (END OF WATCH)	1458	1158	1158										
F.O. CONSUMED	1830	4560	7300										

MACHINERY PARTICULARS		WATCH		WATCH	
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400
THROTTLE		420	420	420	
H.P. AHEAD		420	420	420	
L.P. AHEAD		21	21	20	
VACUUM		30	29	29"	
L.O. TO TURBINES		13	12.5	12.5	
AUX. STEAM		140	145	140	
BACK PRESSURE		9	9	9	
GLAND STEAM		2.5	1.5	1.0"	
H.P. BLEEDER			70	70	
I.P. BLEEDER			6	6	
L.P. BLEEDER			11"	12"	
STEAM AT THROTTLE		730	730	725	
L.P. EXHAUST			110	108	
CONDENSATE		92	105	105	
CIRC. WATER IN		80	84	78	
CIRC. WATER OUT		82	90	88	
L.O. TO COOLERS		112	126	128	
L.O. FROM COOLERS		110	110	110	
TEMPERATURE THRUST BEARING			115	115	
FORWARD H.P. ROTOR BEARING			125	120	

MACHINERY PARTICULARS (CONT'D)		WATCH		WATCH	
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400
AFT. H. P. ROTOR BEARING			136	140	
FORWARD L. P. ROTOR BEARING			135	132	
AFT. L. P. ROTOR BEARING			125	126	
HOTTEST GEAR BEARING FORWARD			148	148	
HOTTEST GEAR BEARING AFT			140	140	
AUX. COND. CONDENSATE		112	112	112	
1ST STAGE FEED WATER HEATER		95	170	170	
D. C. FEED WATER HEATER		238	238	238	
3RD STAGE FEED WATER HEATER			105	108	
F.O. TO BURNERS		140	120	120	
F. O. BACK PRESSURE					
AIR TO FURNACE		4.5	4.4	4.4	
UPTAKE					
MAIN STEAM		460	460	460	
SUPER HEAT		730	730	725	
F.O. TO BURNERS		150	150	158	
F.O. TEMP. IN SETTLING TANKS		100/90	100/90	102/92	
PORT BOILER UPTAKE		300	304	305	
STBO. BOILER UPTAKE		300	294	300	
ENGINE ROOM TEMPERATURE		96	96	94	
FIRE ROOM TEMPERATURE		96	96	94	
NOZZLES IN USE		18	18	18	
NO. OF BURNERS IN USE		6	6	6	
BURNER TIP SIZE		5/65	5/66	5/65	
CO ₂ % PORT BOILER					
CO ₂ % STBD. BOILER					
OIL LEVEL MAIN SUMP		2."	2' 1"	2' 1"	

GENERATORS												FUEL - WATER AND LUBE OIL			
WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS	FUEL OIL	BOILER WATER	LUBE OIL
1200 TO 1600	3	1200	420	730	9	132	110		40	1200	1200	235	METER AT NOON	11587300	ON HAND AT START OF DAY
	4	1400	460	730	10	143	126		64	1200	1200	235	METER PREVIOUS NOON	11580750	EVAPORATED OR RECEIVED
	3	1200	460	730	8	134	112		64	1350	1350	235	CONSUMED BY METER	6550	ON HAND
1600 TO 2000	4	1200	460	730	9	145	128		40	1400	1400	235	ON HAND AT START OF DAY		CONSUMED
	3	1200	460	725	8	132	110		64	1300	1300	235	RECEIVED DURING DAY		ON HAND AT START OF DAY
2000 TO 2400	4	1200	460	725	10	144	128		40	1300	1300	235	EXPENDED DURING DAY		RECEIVED
													REMAINING ON BOARD		ON HAND
2400 TO 0400													ON HAND AT START OF DAY		CONSUMED
													EVAPORATED OR RECEIVED		
0400 TO 0800													ON HAND		
													CONSUMED		
0800 TO 1200															

L.O. CENTRIFUGE - HOURS OPERATED					
1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
4	4	4			

SUMMARY	
RUNNING TIME	PERCENT OF SLIP
DETENTION TIME	BBL FUEL/MI
TOTAL REVOLUTIONS	WIND DIRECTION
AVERAGE R.P.M.	STATE OF SEA
TOTAL MILES BY ENGINE	STATE OF WEATHER
TOTAL MILES BY OBSERVATION	

REMARKS

1200-1600 WATCH

UNDERWAY 18 NOZ.

MACH. IN OPERATION AS BEFORE, F.D. BLOWERS

MAIN FEED PUMPS, F.O. PUMPS, MAIN ENGINES, & 3 HAWKWOOD SWS, & 3 & 4 TURB. GEARS, BUT COND. & CIBO.

F2 & F3 SWS, F2 & F3 PUMPS, WHEEL CLEAR FOR 1400. TEST TELEG & TIME CHECK @ 1359.

CLEAN STD F.O. STRAINER - TEST GEAR @ TEST RUN STOP L.O., FEED & F.O. S. PUMPS.

BEALS AS PER BELL BOOK. DEPART- CNTR- P-22751450 S-21539460

STBY- FOM- P-3850920 S-7730590 CNT- P-20748090 S-21536140.

DEPART- FOM- 3851282 S-7730950

WATCH ENGR'S SIGNATURE-

J. Harris

1600-2000 WATCH

UNDERWAY ON 18 NOZ. MACHINERY IN OPERATION AS BEFORE.

BLEW TUBES IN PORT & STD BOILERS. CHIEF ENGR IN ENGINE RM. FROM 1230 TO 1255

COND. 41 C.P.G.

WATCH ENGR'S SIGNATURE-

Harris

2000-2400 WATCH

UNDERWAY 18 NOZZLES MACHINERY IN OPERATION AS BEFORE CHANGED & CLEARED F.O. BURNER & DISCH. STRAINER & PUMPED BILGES.

Jr. ENGR. PALK, Oiler MARGRAVE F.W.T. WATKINS

main cond. 41 C.P.G.

WATCH ENGR'S SIGNATURE-

J. Harris

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

BOILER WATER READINGS

STB'D PORT

HOURS F-1527 HOURS F-1483

W-1527 HOURS W-1623

AKL AKL

T-AKL T-AKL

SAL. SAL.

PECS. PHOS.

R-ph R-ph

CHIEF ENGR'S SIGNATURE-

J. Harris