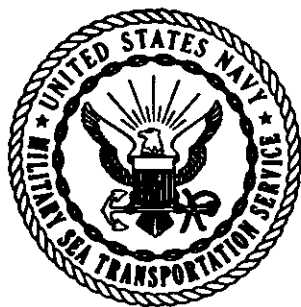


ENGINE ROOM LOG

GEARED TURBINE DRIVE



USNS GEN John POPE TAP-110

FROM JANUARY 1st **19** 67 **TO** _____ **19** _____

INSTRUCTIONS

1. The entries in this book will be made neatly and legibly by the engineer or other person directly in charge of the machinery of the vessel, and with pen and ink or indelible pencil. No erasures nor the removal of any leaves will be permitted. Incorrect entries may be changed by drawing a single line through same with ink or indelible pencil and writing in the correct data, followed by the initials of the person making the change. The greatest care shall be used in keeping the log book to insure absolute accuracy in all particulars.

2. All entries of time shall be made on the 24-hour basis, noon to noon.

3. Under the heading "Remarks" a careful, detailed record of the events occurring daily in the engine department shall be entered in the log book, together with notation of any violation of orders or regulations. Remarks should be preceded by the time when pertaining to important tests, casualties, injuries, etc.

4. Entries regarding the following shall also be made when occurring:

(a) Repairs, cleaning, and painting, including machinery outside the engine spaces.

(b) Faulty or erratic operation or failure of machinery.

(c) Any important changes in machinery of any nature, or additions thereto.

(d) Remetalling of bearings; fitting new piston rings; reboring cylinders; renewing pump parts, metallic packing, important valves, propeller, shafting, stern bearing, zinc protection bars and rings outboard, strainers, etc.; data to show in all cases exactly what parts have been attended to or repaired, material or article used and reasons.

(e) Pumping of bilges.

(f) Blowing of tubes.

(g) Examining holding down bolts.

(h) Fuel and water taken aboard. The fuel account shall be carefully kept and the quantity consumed each day accurately ascertained.

(i) Grade and quality of fuel oil and lubricating oil used; also type of filtering and cleaning elements installed in both fuel and lube oil lines; results obtained from use thereof.

(j) Record of special tests ordered made.

(k) Defects in supplies received.

(l) Derelictions or deficiencies developed on the part of any member of the engine department.

5. In twin screw vessels when both engines are in the same engine space, alternate pages will be used for recording the readings from the starboard machinery, the other pages being used for the port machinery. In such cases, each sheet of the log book will bear the notation either "Port Machinery" or "Starboard Machinery." In the event that the machinery for each propeller is in a separate engine room, two books shall be utilized and each page of each such book shall be properly marked to indicate to which engine room it applies. For such ships, in addition to individual fuel, water, and lube oil summaries, the sheets covering the control engine room shall carry a consolidated figure reflecting the status of these materials for both machinery spaces.

6. The log books shall be retained on board unless required temporarily by the administrative commander and destroyed when three years old.

NSC OAKLAND CALIF

P2-52-K2

1-3-4-67

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							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						
1200 11280980							AUX. COND. CONDENSATE						
F.O. METER (END OF WATCH)							1ST STAGE FEED WATER HEATER						
F.O. CONSUMED							D. C. FEED WATER HEATER						
MACHINERY PARTICULARS	PRESSURES	THROTTLE					MACHINERY PARTICULARS (CONT'D)	TEMPERATURES (CONT'D)	80				
		H. P. AHEAD							80				
		L. P. AHEAD							90				
		VACUUM							78				
		L.O. TO TURBINES							76				
		AUX. STEAM							82				
		BACK PRESSURE											
		GLAND STEAM											
		H. P. BLEEDER											
		I. P. BLEEDER											
MACHINERY PARTICULARS	TEMPERATURES	L. P. BLEEDER					BOILER PARTICULARS	PRESSURES					
		STEAM AT THROTTLE							180				
		L. P. EXHAUST							190				
		CONDENSATE							190				
		CIRC. WATER IN							2"				
		CIRC. WATER OUT							2"				
		L.O. TO COOLERS							2"				
		L.O. FROM COOLERS							2"				
		TEMPERATURE THRUST BEARING							450				
		FORWARD H. P. ROTOR BEARING							450				
MACHINERY PARTICULARS	TEMPERATURES						MISCELLANEOUS	TEMPERATURES	230				
									230				
									200				
									200				
									112				
									112				
									106				
									106				
									260				
									260				
MACHINERY PARTICULARS	TEMPERATURES						MISCELLANEOUS	PRESSURES	73				
									73				
									1				
									1				
									53/100				
									53/100				
									53/100				
									53/100				
									3'				
									3'				

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	450		8	124	104		63	900	900	235	METER AT NOON	11283410		250	
	4	1200	450		10	130	108		47	900	900	235	METER PREVIOUS NOON	11280980		-0-	
1600 TO 2000	3	1200	450		8	124	104		63	850	850	235	CONSUMED BY METER	2430		258	
	4	1100	450		10	130	110		47	850	850	235	ON HAND AT START OF DAY	2941		22	
2000 TO 2400	3	1200	450		8	124	104		63	875	875	235	RECEIVED DURING DAY	-0-		2820	
	4	1200	450		10	130	110		47	875	875	235	EXPENDED DURING DAY	57		-0-	
0400 TO 0800	3	1200	450		8	124	104		63	875	875	230	REMAINING ON BOARD	2884		2810	
	4	1200	450		10	130	110		47	875	870	230	ON HAND AT START OF DAY	1000		10	
0800 TO 1200	3	1200	450		8	134	112		63	850	850	230	DOMESTIC WATER			1432	
	4	1200	450		10	130	108		47	850	850	230	EVAPORATED OR RECEIVED	-0-		1430	
	3	1200	450		8	130	110		63	900	900	230	ON HAND	841		2	
	4	1200	450		10	124	110		47	900	900	230	CONSUMED	159			
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					
SUMMARY												RUNNING TIME					
												DETENTION TIME					
												TOTAL REVOLUTIONS					
												AVERAGE R.P.M.					
												TOTAL MILES BY ENGINE					
												TOTAL MILES BY OBSERVATION					

REMARKS

1200-1600 WATCH

Port Watch. Mach. IN OPERATION #3 Boiler #3 Forge Draft Blower. 3 Main Feed Pump. 3 F.O.S. Pump 3 & 4 Aux Generators. 3 Main Cond Pump. 2 Aux Cond Pump. 1 Fire S.H.A. Pump Main Air Compressor. 3 F.W. Pump Bilges at safe level.

FWT - Pixley Oiler - Klint

WATCH ENGR'S SIGNATURE -

1600-2000 WATCH

MACH AS BEFORE. Bilges at safe level. Aft Peak Tank continued to dump to shaft alley.

FWT - Watkins Oiler - Keelan

WATCH ENGR'S SIGNATURE -

2000-2400 WATCH

MACHINERY AS BEFORE. Bilges at safe level. Routine inspections of Aft & Main Machinery Spaces & Fore Room Areas.

FWT - Urrutia Oiler - Keelan

WATCH ENGR'S SIGNATURE -

2400-0400 WATCH

Machinery in operation as before, changed & cleaned F.O. burner. made routine rounds & inspections of machinery spaces. pumped up flat bilges & shaft alley bilges & R. bilges at safe level. complied with 50 & 40.

REEFER D. BEANS - Oiler - Guinan - FWT Urrutia

WATCH ENGR'S SIGNATURE -

0400-0800 WATCH

Machinery as before, routine rounds & inspections of machinery spaces. noticed water seepage on port base of port boiler, after peak still draining & pumping shaft alley. all other bilges at safe level. complied with 50 & 40.

REEFER D. BEANS - Oiler - Guinan - FWT Urrutia

WATCH ENGR'S SIGNATURE -

0800-1200 WATCH

QA BEFORE. ROUTINE PORT WATCH. PUMPED UP SETTLERS FROM #6 DEEP. DRAINING AFT PEAK TANK. O'HADDED STEAM GAGE VALVE #4 BOILER. REPAIRED GAGE LINE #3 MAIN FEED PUMP DISC.

REF - Gintel - F.W.T. - Hines Oiler - Klint

WATCH ENGR'S SIGNATURE -

CHIEF ENGINEER

B.L.R.S.

STBD #3 PORT #4

HOURS - HOURS
FIRE SIDE - 1051 FIRE SIDE - 1207
WATERSIDE - 1051 WATERSIDE - 1207

CHIEF ENGR'S SIGNATURE -

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE				
Gen. John Pope TAP110				N.S.C. OAKLAND				P-2		Jan 4-5 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														
DETENTION TIME														
REVOLUTION COUNTER (END OF WATCH)														
TOTAL REVOLUTIONS (FOR WATCH)														
AVERAGE RPM				1128 4620										
F.O. METER (END OF WATCH)		1128 3780	1128 1250	1128 4490	1128 4990	1128 5410	1128 5880							
F.O. CONSUMED		370	470	740	370	420	470							
PRESSURES		THROTTLE												
		H.P. AHEAD												
		L.P. AHEAD												
		VACUUM												
		L.O. TO TURBINES												
		AUX. STEAM		150	150	150	150	150	135					
		BACK PRESSURE		9	9	9	9	9	9					
		GLAND STEAM												
		H.P. BLEEDER												
TEMPERATURES		I.P. BLEEDER												
		L.P. BLEEDER												
		STEAM AT THROTTLE												
		L.P. EXHAUST												
		CONDENSATE												
		CIRC. WATER IN												
		CIRC. WATER OUT												
		L.O. TO COOLERS												
		L.O. FROM COOLERS												
TEMPERATURE THRUST BEARING														
FORWARD H.P. ROTOR BEARING														
MACHINERY PARTICULARS (CONT'D)		AFT. H. P. ROTOR BEARING												
		FORWARD L. P. ROTOR BEARING												
		AFT. L. P. ROTOR BEARING												
		HOTTEST GEAR BEARING FORWARD												
		HOTTEST GEAR BEARING AFT												
		AUX. CONO. CONDENSATE		82	77	76	76	76	82					
		1ST STAGE FEED WATER HEATER												
		D. C. FEED WATER HEATER		236	237	237	236	236	236					
		3RD STAGE FEED WATER HEATER												236
		F.O. TO BURNERS		190	190	190	190	190	190					
		F. O. BACK PRESSURE												
		AIR TO FURNACE		28	28	28	28	28	28					
UPTAKE														
MAIN STEAM														
SUPER HEAT		450	450	450	450	450	450							
F.O. TO BURNERS		230												
F.O. TEMP. IN SETTLING TANKS		90/110	105/112	107/120	110/124	110/124	106/118							
PORT BOILER UPTAKE														
STBD. BOILER UPTAKE		270	270	270	275	275	275							
ENGINE ROOM TEMPERATURE		72	71	71	70	75	74							
FIRE ROOM TEMPERATURE		72	71	71	70	75	74							
NOZZLES IN USE														
NO. OF BURNERS IN USE		1	1	1	1	1	1							
BURNER TIP SIZE		53/60	53/60	53/60	53/60	53/60	53/60							
CO2 % PORT BOILER														
CO2 % STBD. BOILER														
OIL LEVEL MAIN SUMP		3'												

REMARKS

1200-1600 WATCH

MAKING REPAIRS AS PER WORK LIST.

#3 Boiler #3 Blower #3 Ma Feed pump #3 Fc service pump
 #3 & 4 Turbo Generators #9 main Cond pump #2 Aux Circ #2 5184
 Fw pump #2 main Air Comp. Bilges At safe level.

Fut - Hinds

WATCH ENGR'S SIGNATURE.

R. Summers

1600-2000 WATCH

ROUTINE PORT WATER

Bilges At Safe Level

LET PUMP TANK STOPPED DRAINING INTO SEAGE TANK.

DINER MC GINNIS FWT WATKINS RMT MARVIN FWT WEBSTER
2000-2400 WATCH

WATCH ENGR'S SIGNATURE.

M. J. Smith

ROUTINE PORT WATER

Bilges At Safe Level

ROUTINE INSPECTIONS OF MAIN & AUX. MAIN DRAWS MAIN & REPAIRS
INTERVALS.DINER Mc GINNIS FWT WATKINS RMT MARVIN FWT WEBSTER
2400-0400 WATCH

WATCH ENGR'S SIGNATURE.

M. J. Smith

REEFER - D. BEANS - FWT. WATKINS - CILER - GUINAN

WATCH ENGR'S SIGNATURE.

M. J. Smith

0400-0800 WATCH

REEFER - D. BEANS - CILER - GUINAN FWT Urrutia

WATCH ENGR'S SIGNATURE.

M. J. Smith

0800-1200 WATCH

PORT WATER.

MAKING REPAIRS AS WORK LIST.

ELECTRICIANS CLEANING AND REPAIRING MOTORS NOT IN USE.

F. L. T. PITNEY CILER - KLINT

WATCH ENGR'S SIGNATURE.

M. J. Smith

CHIEF ENGINEER

BLRS

STAR #3 PORT #4

HOURS	HOURS
F - 1075	F - 1207
W - 1075	W - 1207

CHIEF ENGR'S SIGNATURE.

M. J. Smith

USNS Esq John Pope TAP-110	VOYAGE NO.	FROM ATC NSC Oakland	TO	TYPE OF VESSEL P-2-G	DATE 5-6-JUN 62
-------------------------------	------------	----------------------------	----	-------------------------	--------------------

		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								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)		1128 6380	1128 6760	1128 7130	1128 7500	1128 8000	1128 8750	AUX. COND. CONDENSATE		82	78	62	80
F.O. CONSUMED		500	380	370	370	500	750	1ST STAGE FEED WATER HEATER					
THROTTLE								D. C. FEED WATER HEATER		236	232	234	234
H.P. AHEAD								3RD STAGE FEED WATER HEATER					
L.P. AHEAD								F.O. TO BURNERS			200	210	210
VACUUM								F. O. BACK PRESSURE		9			
L.O. TO TURBINES								AIR TO FURNACE		2"	2"	2"	2"
AUX. STEAM		150	150	150	150	150	150	UPTAKE					
BACK PRESSURE		9	9	9	9	9	9	MAIN STEAM		450	450	450	450
GLAND STEAM								SUPER HEAT					
H.P. BLEEDER								F.O. TO BURNERS		190	190	190	190
I.P. BLEEDER								F.O. TEMP. IN SETTLING TANKS		106 110	102 100	102 95	98 90
L.P. BLEEDER								PORT BOILER UPTAKE					
STEAM AT THROTTLE								STBD. BOILER UPTAKE		275	270	270	270
L.P. EXHAUST								ENGINE ROOM TEMPERATURE		76	69	69	72
CONDENSATE								FIRE ROOM TEMPERATURE		76	69	69	72
CIRC. WATER IN								NOZZLES IN USE					
CIRC. WATER OUT								NO. OF BURNERS IN USE		1	1	1	2
L.O. TO COOLERS								BURNER TIP SIZE		5 3/16	5 3/16	6 0	5 3/16
L.O. FROM COOLERS								CO ₂ % PORT BOILER					
TEMPERATURE THRUST BEARING								CO ₂ % STBD. BOILER					
FORWARD H.P. ROTOR BEARING								OIL LEVEL MAIN SUMP		3			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	450		8	132	110		63	1000	1000	235	METER AT NOON	11288750	ON HAND AT START OF DAY	230				
													METER PREVIOUS NOON	11285850	EVAPORATED OR RECEIVED	-0-				
	4	1200	450		10	130	108		47	1000	1000	235	CONSUMED BY METER	2870	ON HAND	200				
													ON HAND AT START OF DAY	2826	CONSUMED	30				
1600 TO 2000	3	1200	450		8	130	108		63	850	850	235	RECEIVED DURING DAY	5373	ON HAND AT START OF DAY	2800				
													EXPENDED DURING DAY	98	RECEIVED	-0-				
	4	1200	450		10	130	108		47	900	900	235	REMAINING ON BOARD	8101	ON HAND	2790				
													ON HAND AT START OF DAY	780	CONSUMED	10				
2000 TO 2400	3	1200	450		8	130	108		63	850	850	235	EVAPORATED OR RECEIVED	-0-	1428					
													ON HAND	740	1425					
	7	1200	450		10	130	108		47	850	850	235	CONSUMED	40	3					
													LOW PRESS. EVAPORATORS (No. of hrs. operated)(Fresh water made gals.)							
2400 TO 0400	3	1200	450		8	132	110		63	1100	1100	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	1200	450		10	130	108		47	1100	1100	235						1 1/2		
													SUMMARY							
0400 TO 0800	3	1200	450		8	132	110		63	850	850	235	RUNNING TIME		PERCENT OF SLIP					
													DETENTION TIME		BBL FUEL/MI					
	4	1200	450		10	130	108		47	850	850	235	TOTAL REVOLUTIONS		WIND DIRECTION					
													AVERAGE R.P.M.		STATE OF SEA					
0800 TO 1200	3	1200	450		8	134	110		63	1250	1250	235	TOTAL MILES BY ENGINE		STATE OF WEATHER					
													TOTAL MILES BY OBSERVATION							
	4	1200	450		10	130	110		47	1250	1250	235								

REMARKS

1200-1600 WATCH

Plantine part watch, Mach in operation. Still Boiler #3, Blower #3
 #3 F.O. Service pumps. #3 main fuel pump #3 & 4 Turbine generators,
 #3 main Cond pumps. #2 Aux Circ. #3 Still FW pump. #2 main
 Air Comp. @ 1230 Gas Chemist checked #2 Eng Room. Drained #4
 Boiler to Repair Water Well Drain Line - Still open. Added
 1 gal oil to main fuel pump #3
 Coker - Kint - 744T - Bixley.

WATCH ENGR'S SIGNATURE-

1600-2000 WATCH

Still continued to take on Fuel Oil until 1855 Received 5300 GROSS BBL.
 At 1900 changed to #4, and #40? #3 was said to be vibrating & had no Disc. Pressure.
 At 1940 Secured Fu. Section from #3 but put to stop dist. #3 still open.

CHIEF ENGR. F.W. WATKINS, LEO JENNINS REEF. MARIN

2000-2400 WATCH

WATCH ENGR'S SIGNATURE-

Plantine part watch, Mach in operation.

Routine inspections of M.T. & Mach. spaces.

CHIEF ENGR. F.W. WATKINS, LEO JENNINS REEF. MARIN

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

Machinery in operation as before, routine routine & inspections
 changed & checked F.O. burners. @ 0130 L.O. pump started all night glass running
 oil, @ 0145 started L.O. pump structure starting second. @ 0200 permission granted
 to jack main engine. @ 0230 started to raise vacuum man unit unable to
 split plant could not raise vacuum on main unit due to loss of vac on aux.

REFER. D. BEANS Oiler - GUINAN F.W. T. Urrut. A

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

Machinery in operation as before, routine routine & inspections. Started
 raising vacuum on main unit. @ 0703 time when I tested engine telegraph
 @ 0710 permission to open main engine around jacking gear. began at
 safe level, comply with 5/0 & 1/0

REFER. D. BEANS Oiler - GUINAN F.W. T. Urrut. A

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

SHIFTING TO PIER C. OAKLAND NO. TERM.

STBY @ 0800	F.W.E @ 0922	SECURED MAIN PLANT - ON JACKING
FOM-S - 757660	F.OM-S - 7577080	GEAR. M.V. EVAP LIT OFF @ 1000.
FOM-P - 3711430	F.OM-P - 3711430	ON POT. WATER.
COT-S - 19173340	ENT-S - 19174030	PURIFIER SECURED FOR ELECTRICIANS
CNT-P - 18457750	CNT-P - 1845830	

WATCH ENGR'S SIGNATURE-

BELLS AS PER BELL BOOK

CHIEF ENGINEER

Started taking on Fuel @ 1455 Bridge Notified.
 #4 Boiler Drained for Repairs.

BLRS

STBD #3 PORT #4
 F - 1099 F - 1207
 W - 1099 W - 1207

CHIEF ENGR'S SIGNATURE-

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)						
DETENTION TIME													
REVOLUTION COUNTER (END OF WATCH)													
TOTAL REVOLUTIONS (FOR WATCH)													
AVERAGE RPM													
F.O. METER (END OF WATCH)	1128 8750	1128 9420	2129 0080	1124 0470	1129 0840	1129 1320							
F.O. CONSUMED	440	430	460	370	420	430							
MACHINERY PARTICULARS	PRESSURES	THROTTLE					TEMPERATURES (CONT'D)	AFT. H. P. ROTOR BEARING					
		H.P. AHEAD						FORWARD L. P. ROTOR BEARING					
		L.P. AHEAD						AFT. L.P. ROTOR BEARING					
		VACUUM						HOTTEST GEAR BEARING FORWARD					
		L.O. TO TURBINES						HOTTEST GEAR BEARING AFT					
		AUX. STEAM			150	150		AUX. COND. CONDENSATE	82	80	84	82	80
		BACK PRESSURE			9	9		1ST STAGE FEED WATER HEATER					
		GLAND STEAM						D. C. FEED WATER HEATER	238	237	236	234	232
		H.P. BLEEDER						3RD STAGE FEED WATER HEATER					
		L.P. BLEEDER											
MACHINERY PARTICULARS	TEMPERATURES	STEAM AT THROTTLE					PRESSURES	F.O. TO BURNERS	110	110	110	250	220
		L.P. EXHAUST						F. O. BACK PRESSURE	9	9	9	9	9
		CONDENSATE						AIR TO FURNACE	28	2	2	2	2
		CIRC. WATER IN						UPTAKE	260				
		CIRC. WATER OUT						MAIN STEAM	450	450	450	450	450
		L.O. TO COOLERS						SUPER HEAT					
		L.O. FROM COOLERS						F.O. TO BURNERS	190	190	190	190	190
		TEMPERATURE THRUST BEARING						F.O. TEMP. IN SETTLING TANKS	108/110	108/104	108/100	106/100	108/100
		FORWARD H.P. ROTOR BEARING						PORT BOILER UPTAKE	7				
								STBD. BOILER UPTAKE	260	260	240	250	260
MACHINERY PARTICULARS	TEMPERATURES						MISCELLANEOUS	ENGINE ROOM TEMPERATURE	78	73	73	75	76
								FIRE ROOM TEMPERATURE	78	73		75	76
								NOZZLES IN USE					
								NO. OF BURNERS IN USE	2	2	2	1	1
								BURNER TIP SIZE	53/60	53/60	53/60	53/60	53/60
								CO ₂ % PORT BOILER					
								CO ₂ % STBD. BOILER					
								OIL LEVEL MAIN SUMP	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	1200	450		8	130	108		63	1000	1000	235	METER AT NOON	11291320	ON HAND AT START OF DAY	200		
													METER PREVIOUS NOON	11288750	EVAPORATED OR RECEIVED	-0-		
													CONSUMED BY METER	2570	ON HAND	180		
	4	1200	450		10	130	108		47	1000	1000	235	ON HAND AT START OF DAY	8101	CONSUMED	20		
													RECEIVED DURING DAY	-0-	ON HAND AT START OF DAY	2790		
													EXPENDED DURING DAY	61	RECEIVED	-0-		
1600 TO 2000	3	1200	450		8	130	108		63	950	950	235	REMAINING ON BOARD	8040	ON HAND	2780		
													ON HAND AT START OF DAY	740	CONSUMED	10		
													EVAPORATED OR RECEIVED	-0-		1425		
	4	1200	450		10	130	108		47	950	950	235	ON HAND	700		1423		
													CONSUMED	40		2		
													LOW PRESS. EVAPORATORS (No. of hrs. operated)(Fresh water made gals.)					
2000 TO 2400	3	1200	450		8	130	108		63	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
2400 TO 0400	4	1200	450		10	130	108		47	850	850	235	SUMMARY					
													RUNNING TIME		PERCENT OF SLIP			
													DETENTION TIME		BBL FUEL/MI			
0400 TO 0800	3	1200	450		8	130	110		63	950	950	235	TOTAL REVOLUTIONS		WIND DIRECTION			
													AVERAGE R.P.M.		STATE OF SEA			
													TOTAL MILES BY ENGINE		STATE OF WEATHER			
0800 TO 1200	4	1200	450		10	130	108		47	1000	1000	235	TOTAL MILES BY OBSERVATION					

REMARKS

1200-1600 WATCH

In port, Mach in operation, # 3 Boiler # 3 F.D. Blower
 # 3 Main Feed pump # 1, 3 & 4 Turfo Generators # 2 Main Air Comp.
 # 3 Main Cond pump, # 2 Aux Circ pump # 3 F.W. pump.
 @ 1500 Second keeping down main L.C. pump + main Circ.
 Make up Evap # 2 in operation.
 # 4 Boiler - Drained -

Oiler Klint 704 - Rudy.

WATCH ENGR'S SIGNATURE-

Ralph Summers

1600-2000 WATCH

SHIP'S GEAR START TAKING IN FUEL OIL @ 1725. CONTINUED THROUGH END OF WATCH.
 M&R WORKED ON REPAIRING BLADES ON SHORE SEAM LINE IN TRUCK MISS HALL. 1800 TO
 1930.

Oiler Klint 704 - Rudy.

WATCH ENGR'S SIGNATURE-

M. J. J. - 21

2000-2400 WATCH

Barged at safe level.
 SHIP'S GEAR CONTINUED TO TAKE ON FUEL OIL UNTIL 2250. 11,608 BARS SET
 PLACED BILGES LEAK THAT "1, 2, 3" WERE LEAK + ACC. 2 WERE
 + SHIP'S ALLEY

Oiler Klint 704 - Rudy.

WATCH ENGR'S SIGNATURE-

M. J. J. - 21

2400-0400 WATCH

Machinery in operation as before, changed & cleaned
 F.O. burners, blew down M.U. swags, routine rounds
 & inspection bilges at safe level. complied with
 S/O & N/O

Oiler Klint 704 - Rudy.

WATCH ENGR'S SIGNATURE-

Elliott B. Murdock R/E

0400-0800 WATCH

Machinery as before, routine rounds & inspection
 cold water line to sink in main galley carried away second
 water at side. blew down M.U. swags, bilges at safe level.
 complied with S/O & N/O.

Oiler Klint 704 - Rudy.

WATCH ENGR'S SIGNATURE-

Elliott B. Murdock R/E

0800-1200 WATCH

Machinery as before, changed & cleaned F.O. burners.
 second spray bearing cooling water so M&R could work on bearings.
 M&R working in evap. just @ 0920 second heating steam, routine rounds
 & inspection bilges at safe level. complied with S/O & N/O pumped out
 PPS Shift alley for M&R installation of new strainers.

Oiler Klint 704 - Rudy.

WATCH ENGR'S SIGNATURE-

Elliott B. Murdock R/E

CHIEF ENGINEER

BLRS.
 Hours: Hours:
 STBD #3 PORT #4
 F. 1023 F. 1207
 W. 1023 W. 1207

CHIEF ENGR'S SIGNATURE-

Elliott B. Murdock R/E

		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)	TEMPERATURES (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)		1129 1160	1129 1160	1129 1160	1129 1160	1129 1160	1129 1160			AUX. COND. CONDENSATE	78	78	80	84	86
F.O. CONSUMED		340	340	350	360	340	430			1ST STAGE FEED WATER HEATER					
MACHINERY PARTICULARS	THROTTLE									D. C. FEED WATER HEATER	234	234	234	234	234
	H.P. AHEAD									3RD STAGE FEED WATER HEATER					
	L.P. AHEAD									F.O. TO BURNERS	250	250	200	200	220
	VACUUM									F. O. BACK PRESSURE	9	9	9	9	9
	L.O. TO TURBINES									AIR TO FURNACE	200	205	205	2	2
	AUX. STEAM	100	100	100	150	150	150			UPTAKE					
	BACK PRESSURE	9	9	9	9	9	9			MAIN STEAM	450	450	450	450	450
	GLAND STEAM									SUPER HEAT	600	600	600	600	600
	H.P. BLEEDER									F.O. TO BURNERS	190	190	190	190	190
	I.P. BLEEDER									F.O. TEMP. IN SETTLING TANKS	110	108	108	100	100
TEMPERATURES	L.P. BLEEDER							BOILER PARTICULARS	TEMPERATURES	PORT BOILER UPTAKE					
	STEAM AT THROTTLE									STBD. BOILER UPTAKE	265	260	250	260	260
	L.P. EXHAUST									ENGINE ROOM TEMPERATURE					
	CONDENSATE									FIRE ROOM TEMPERATURE					
	CIRC. WATER IN									NOZZLES IN USE					
	CIRC. WATER OUT									NO. OF BURNERS IN USE	1	1	1	1	1
	L.O. TO COOLERS									BURNER TIP SIZE			53/60	53/60	53/60
	L.O. FROM COOLERS									CO ₂ % PORT BOILER					
	TEMPERATURE THRUST BEARING									CO ₂ % STBD. BOILER					
	FORWARD H.P. ROTOR BEARING									OIL LEVEL MAIN SUMP					

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	450		8	132	110		63	850	850	235	METER AT NOON	11293480		180	
													METER PREVIOUS NOON	11291320		-57	
													CONSUMED BY METER	2160		170	
													ON HAND AT START OF DAY	8040		10	
													RECEIVED DURING DAY	10,752		2780	
													EXPENDED DURING DAY	118,822		-0-	
													REMAINING ON BOARD			2770	
1600 TO 2000	4	1200	450		10	130	108		47	950	950	235	ON HAND AT START OF DAY	700		10	
													EVAPORATED OR RECEIVED	-0-		1423	
													ON HAND	640		1420	
													CONSUMED	60		3	
2000 TO 2400	3	1200	470		8	132	110		63	850	850	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
2400 TO 0400	4	1200	450		10	130	108		47	950	950	235					
0400 TO 0800	3	1200	450		8	130	110		63	950	950	235	SUMMARY				
													RUNNING TIME			PERCENT OF SLIP	
													DETENTION TIME			BBL FUEL/MI	
													TOTAL REVOLUTIONS			WIND DIRECTION	
0800 TO 1200	4	1200	450		10	130	108		47	950	950	235	AVERAGE R.P.M.			STATE OF SEA	
													TOTAL MILES BY ENGINE			STATE OF WEATHER	
													TOTAL MILES BY OBSERVATION				

REMARKS

1200-1600 WATCH

Put 350 # HYDRO ON #4 BOILER @ 1700. Same checked out on No. 10 HEATER
 AT WATER WALL HEATER DRAIN. After working continued to work in
 LUBRICANT & SHAFT ALLEY ALSO ON HT. ST. MAIN LINE FROM SALLY
 PIPES AT SALLY LINE. After working on the HEATING
 #11 IN ROOM ON CIRC PUMP SECTION PIPING.

1600-2000 WATCH

REEFER A. GINTEL WATCH ENGR'S SIGNATURE.

Mr. R. Still working on ST. MAIN LINE
 Bilges at safe level.
 Routine inspections of Main & Aux Main. Small work at
 REPAIR MATERIALS.

2000-2400 WATCH

WATCH ENGR'S SIGNATURE.

Mr. R. finished working on ST. MAIN LINE at 2030
 Routine Port Watch
 Bilges lowered down to safe level.

2400-0400 WATCH

WATCH ENGR'S SIGNATURE.

Machinery in operation as before, cleaned & changed 70.0 hours.
 Routine rounds & inspections of machinery spaces
 bilges at safe level, complied with S/O & N/O.

0400-0800 WATCH

WATCH ENGR'S SIGNATURE.

REEFER D. BEANS. CILER - GUINAN. FWT. L. ATKINS
 Machinery in operation as before, routine rounds &
 inspections of machinery spaces, bilges at safe level
 complied with S/O & N/O.

0800-1200 WATCH

WATCH ENGR'S SIGNATURE.

REEFER. D. BEANS. CILER GUINAN. FWT L. ATKINS
 Machinery in operation as before, changed & cleaned 70.0 hours.
 @ 0800 MBR man in engine room @ 0845 secured heating system returns @ 0920
 section heating steam & returns. pumps #4 held & still. shaft alley bilges Routine
 rounds & inspections of engineering spaces complied with S/O & N/O.

CHIEF ENGINEER

WATCH ENGR'S SIGNATURE.

REEFER A. GINTEL FWT. Pipley Rinklin
 Received 10,782 BALS FUEL OIL BUNKER #6.

BLRS

STBD #3 PORT #4

HOURS

HOURS

F. 1047

F. 1207

W. 1047

W. 1207

CHIEF ENGR'S SIGNATURE.

REMARKS

1200-1600 WATCH

PORT WATER TANKS OVER THE UNIT #1 & #2. COULD BEAT STAD. SP. IN. BEHAVING & SHUT F.
 @ 1300. AHEAD PUMP, ON #1 & 2 PUMP.

COULD BE BEHAVING TO HAVE VERY TROUBLE GALLY STY LOOKERS & CO. UNIT & BEHAVING.
 AT 2 WORKED ON #2 BURNER. BURNER HEATER COULD BE SHUT OFF. SHUT OFF 1. SHUT
 AT 2 WORKED ON BEHAVING WATER. WATER LOOKS COULD BE SHUT OFF.

REPAIRS. L. & S. BURNERS. AT PUMP. WATCH ENGR'S SIGNATURE. *[Signature]*

1600-2000 WATCH

Burner at safe level

ROUTINE INSPECTIONS OF ALL MAIN SUGGEST

SECTION. L. & S. BURNERS. AT PUMP. WATCH ENGR'S SIGNATURE. *[Signature]*

2000-2400 WATCH

CHANGED FUEL SECTION FROM #2 PORT DEEP TO #1 PORT DEEP @ 2105
 CHANGED TO STBD OUTBOARD F.O. SETTLE @ 2100.

SECTION. L. & S. BURNERS. AT PUMP. WATCH ENGR'S SIGNATURE. *[Signature]*

2400-0400 WATCH

Machinery in operation as before, changed & cleaned
 F.O. Burners, made routine checks & inspections while
 at safe level, complied with S/O & N/O.

SECTION. L. & S. BURNERS. AT PUMP. WATCH ENGR'S SIGNATURE. *[Signature]*

0400-0800 WATCH

Machinery as before, routine checks & inspections @ 0500
 Reper reported tows 9-10 & 11 cut. broke out electricity, tows back on
 line @ 0530. Began at safe level, complied with S/O & N/O.

SECTION. L. & S. BURNERS. AT PUMP. WATCH ENGR'S SIGNATURE. *[Signature]*

0800-1200 WATCH

Machinery as before. Routine Rounds of Mech & Eng spaces.
 @ 0900 Fire & Cell Drill @ 1000 L.T. off # Evaporator
 @ 0920 Secure Fire & Cell Drill
 @ 0921 Abandon Ship Drill
 @ 1106 Secure Abandon Ship Drill
 @ 0930 Test Fresh Draft Blower #4 Check Ventilating system By Coast Guard Insp.

Order Klint 7% P. x 10y WATCH ENGR'S SIGNATURE. *[Signature]*

CHIEF ENGINEER

BLRS
 STBD. #3 PORT #4
 HOURS HOURS
 F-1071 F-1207
 W-1071 W-1207

CHIEF ENGR'S SIGNATURE. *[Signature]*

USNS *Gen John Pope TAP-110* VOYAGE NO. *15C-00Kland* TO *P-2-B* DATE *9+10 Jan 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								MACHINERY PARTICULARS (CONT'D) TEMPERATURES (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)		1129 7100	1129 8840	1129 8420	1129 8000	1129 9580	1130 0710			AUX. COND. CONDENSATE	80	82	28	80	82	
F.O. CONSUMED		720	840	840	590	570	1130			1ST STAGE FEED WATER HEATER						
MACHINERY PARTICULARS PRESSURES		THROTTLE								D. C. FEED WATER HEATER	236	236	236	236	236	
		H.P. AHEAD									3RD STAGE FEED WATER HEATER					
		L.P. AHEAD									F.O. TO BURNERS	180	180	180	140	190
		VACUUM									F. O. BACK PRESSURE	10	10	10	10	10
		L.O. TO TURBINES									AIR TO FURNACE	2.8	2.1	2.5	2.6	2.1
		AUX. STEAM	150	150	150	150	150	150			UPTAKE	290				
		BACK PRESSURE	8	8	5	5	8	8			MAIN STEAM	450	450	470	450	450
		GLAND STEAM									SUPER HEAT					
		H.P. BLEEDER									F.O. TO BURNERS					
		I.P. BLEEDER									F.O. TEMP. IN SETTLING TANKS	104 108	102 102	106 106	104 104	105 105
MACHINERY PARTICULARS TEMPERATURES		L.P. BLEEDER								PORT BOILER UPTAKE					260	
		STEAM AT THROTTLE									STBD. BOILER UPTAKE	290	285	280	270	280
		L.P. EXHAUST									ENGINE ROOM TEMPERATURE	74	76	76	80	67
		CONDENSATE									FIRE ROOM TEMPERATURE	74	76	76	80	67
		CIRC. WATER IN									NOZZLES IN USE					
		CIRC. WATER OUT									NO. OF BURNERS IN USE	2	2	2	2	2
		L.O. TO COOLERS									BURNER TIP SIZE	53/60	53/60	53/60	53/60	53/60
		L.O. FROM COOLERS									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

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	450		8	132	110		63	1150	1000	235	METER AT NOON	11300710	ON HAND AT START OF DAY	160		
													METER PREVIOUS NOON	11296380	EVAPORATED OR RECEIVED	129		
													CONSUMED BY METER	4330	ON HAND	269		
1600 TO 2000	4	1200	450		10	135	116		47	1150	1000	235	ON HAND AT START OF DAY	18753	CONSUMED	20		
													RECEIVED DURING DAY	-0-	ON HAND AT START OF DAY	2760		
													EXPENDED DURING DAY	139	RECEIVED	-0-		
2000 TO 2400	3	1200	450		8	132	110		63	1150	1300	235	REMAINING ON BOARD	18614	ON HAND	2750		
													ON HAND AT START OF DAY	600	CONSUMED	10		
													EVAPORATED OR RECEIVED	630		1418		
2400 TO 0400	4	1200	450		10	130	110		47	800	80	235	ON HAND	1150		1415		
													CONSUMED	80		3		
													PRESS. EVAPORATORS (No. of hrs. operated)(Fresh water made gals.)					
0400 TO 0800	3	1200	450		8	130	110		63	1050	1050	235	4 hrs 41 4					
													L.O. CENTRIFUGE - HOURS OPERATED					
													1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
0800 TO 1200	4	1200	450		10	130	108		47	1050	1050	235		4	4	4	4	4
													SUMMARY					
													RUNNING TIME		PERCENT OF SLIP			
1200 TO 1600	3	1200	450		8	132	110		63	1250	1250	235	DETENTION TIME		BBL FUEL/MI			
													TOTAL REVOLUTIONS		WIND DIRECTION			
													AVERAGE R.P.M.		STATE OF SEA			
1600 TO 2000	4	1200	450		10	130	108		47	1250	1250	235	TOTAL MILES BY ENGINE		STATE OF WEATHER			
													TOTAL MILES BY OBSERVATION					

1200-1600 WATCH

1600-2000 WATCH

2000-2400 WATCH

REF. H.
2400-0400 WATCH

FUT 3/11
0400-0800 WATCH

01/12/20
0800-1200 WATCH

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE.

[illegible]

REMARKS

1200-1600 WATCH

MACH. IN USE - #3 & #4 BOILERS, FEED PUMPS, GENS, AOT. CIRC. AOT COND PUMPS.

#2 & #4 F.O. BLOWERS - #3 & #4 F.O. S PUMPS. MAIN COND PUMP. #1 POT. WTR. PUMP.

STBY @ 1350	DEP. @ 1542	TIME + TELEG. CHECK @ 1237.
P-CNT- 18458520	P-CNT- 18463580	BELLS AS PER BELL BOOK.
S-CNT- 19174300	S-CNT- 19179540	18 NOZZ. @ 1536 1/2.
P-FOM- 3711930	P-FOM- 3712300	
S-FOM- 7589470	S-FOM- 7590170	WATCH ENGR'S SIGNATURE- <i>M. Donnell</i>

1600-2000 WATCH

MACH. IN OPERATION AS BEFORE.

PUMPED ENG RM & GRAFT ALLEY BILGES

COMPOUND #4 BOILER- PUMPUP SETTLERS FROM #4 P+S DP. TANKS.

WATCH ENGR'S SIGNATURE- *M. Donnell*

2000-2400 WATCH

UNDERWAY ON 18 NOZZLES, MACHINERY IN OPERATION AS BEFORE.

CHANGED & CLEANED #4 ATOMIZER & PORT F.O. STRAINER. MADE ROUNDS & INSPECTION OF MACHINERY SPACES & EQUIPMENT.

WATCH ENGR'S SIGNATURE- *Clemens*

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES, MACHINERY IN OPERATION AS BEFORE.

CLEANED #1 & #2 BURNERS + STBD. F.O. DISC. STRAINER.

SWITCHED TO OUTBOARD SETTLER @ 0245

MADE ROUNDS & INSPECTION OF MACHINERY SPACE & EQUIPMENT.

WATCH ENGR'S SIGNATURE- *Marsten*

COND. 41 GPG

0400-0800 WATCH

MACH. IN USE AS BEFORE.

PUMP UP SETTLERS FROM #4 P+S DP.

ROUTINE STEAMING WATCH.

CHANGED & CLEANED #3 & #4 BURNERS + F.O. SUCTION STRAINER.

PUMPED BILGES. #3 F.W. TANKS TOPPED OFF @ 0700.

WATCH ENGR'S SIGNATURE- *M. Donnell*

MAIN COND. 41 G/G

0800-1200 WATCH

UNDERWAY ON 18 NOZZLES, MACHINERY AS BEFORE EXCEPT SECURED #3

GEN, SECURED & CLEANED I.O. PURIFIER. CLEANED #5 ATOMIZER & PORT F.O. STRAINER. MADE ROUNDS OF MACHINERY SPACES & EQUIPMENT.

PUMP BILGES. BLEW TUBES ON #3 & #4 BOILERS.

WATCH ENGR'S SIGNATURE- *Clemens*

COND. 41 GPG

CHIEF ENGINEER

#3-S

#4-P

BLRS.

TIME-

STBD #3

PORT #4

ALK-12.26 ALK- 7.57

HOURS

HOURS

T-ALK-10.35 T-ALK-10.51

F. 1119

F. 1231.5

C- 4.97 C- 2.07

W. 1119

W. 1231.5

PC- 40 PC- 30

PH- 11 PH- 11

CHIEF ENGR'S SIGNATURE- *W. T. Linn*

		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		130	128	130	125	130	125	
DETENTION TIME												FORWARD L. P. ROTOR BEARING		125	130	125	125	130	125	
REVOLUTION COUNTER (END OF WATCH)		1860 0150	1862 2990	1864 7680	1867 2460	1869 7240	1871 6090					AFT. L.P. ROTOR BEARING		125	125	125	125	130	125	
TOTAL REVOLUTIONS (FOR WATCH)		22610	22730	24800	24780	24780	22850					HOTTEST GEAR BEARING FORWARD		148	150	146	148	150	148	
AVERAGE RPM		74.2	94.7	95.4	75.3	95.3	95.2					HOTTEST GEAR BEARING AFT		140	140	140	140	142	140	
F.O. METER (END OF WATCH)		1131 8750	1132 0830	1132 3650	1132 6460	1132 9320	1133 1990					AUX. COND. CONDENSATE		90	96	90	94	94	96	
F.O. CONSUMED		2540	2680	2820	2810	2880	2670					1ST STAGE FEED WATER HEATER		170	170	170	170	170	170	
MACHINERY PARTICULARS		PRESSURES		THROTTLE		420	425	425	425	425	425	425	D. C. FEED WATER HEATER		238	238	235	238	240	238
				H.P. AHEAD		420	425	425	425	425	425	425	3RD STAGE FEED WATER HEATER			1051 135	1051 135			
				L.P. AHEAD		20	21	21	21	21	21	21	F.O. TO BURNERS		120	125	125	125	140	125
				VACUUM		30"	30"	30"	30	30	30	30"	F. O. BACK PRESSURE		7.5					
				L.O. TO TURBINES		12.2	12.2	12.2	12.2	12.2	12.2	12.2	AIR TO FURNACE		7.5	4.5"	5'	5	5"	5'
				AUX. STEAM		137	135	135	135	135	135	135	UPTAKE							
				BACK PRESSURE		9	9	9	9	9	9	9	MAIN STEAM		460	460	460	460	460	460
				GLAND STEAM		.6	.6	.6	.6	.6	.6	.6	SUPER HEAT		725	725	730	730	725	730
				H.P. BLEEDER		56	70	70	74	70	70		F.O. TO BURNERS		190	190	190	190	190	190
				I.P. BLEEDER		6	6	6	6	6	6		F.O. TEMP. IN SETTLING TANKS		110	108 90	106 104	108 108	102 98	103 100
MACHINERY PARTICULARS		TEMPERATURES		L.P. BLEEDER		12	13"	12"	13	12"	12	PORT BOILER UPTAKE		300	295	300	300	295	305	
				STEAM AT THROTTLE		730	725	730	730	720	730	STBD. BOILER UPTAKE		290	290	290	300	295	290	
				L.P. EXHAUST		94	99	96	96	99	98	ENGINE ROOM TEMPERATURE		80	81	80	82	94	84	
				CONDENSATE		92	90	90	90	92	90	FIRE ROOM TEMPERATURE		80	81	80	82	94	84	
				CIRC. WATER IN		54	60	60	58	62	58	NOZZLES IN USE		18	18	18	18	18	18	
				CIRC. WATER OUT		70	74	70	72	74	70	NO. OF BURNERS IN USE		6	6	6	6	6	6	
				L.O. TO COOLERS		126	126	128	128	129	128	BURNER TIP SIZE		5 1/55	5 1/55	5 1/55	5 1/55	5 1/55	5 1/55	
				L.O. FROM COOLERS		110	108	110	110	110	110	CO ₂ % PORT BOILER								
				TEMPERATURE THRUST BEARING		112	112	112	112	114	112	CO ₂ % STBD. BOILER								
				FORWARD H.P. ROTOR BEARING		120	125	125	120	120	120	OIL LEVEL MAIN SUMP		2.3	2'3"	2'2"	2'3"	2'3"	2'3"	

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											METER AT NOON	11331990		ON HAND AT START OF DAY			ON HAND AT START OF DAY			
													METER PREVIOUS NOON	11315610		EVAPORATED OR RECEIVED			EVAPORATED OR RECEIVED			
	4	1200	460	730	10	135	116		44	1300	1300	230	CONSUMED BY METER	16380		ON HAND			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						
1600 TO 2000	4	1200	460	725	10	137	116		44	1300	1300	235	ON HAND AT START OF DAY			CONSUMED			CONSUMED			
													EVAPORATED OR RECEIVED									
													ON HAND									
2000 TO 2400	4	1200	460	725	10	136	116		45	1350	1350	235	CONSUMED									
													LOW PRESS. EVAPORATORS (No. of hrs. operated)(Fresh water made gals.)									
													L.O. CENTRIFUGE - HOURS OPERATED									
2400 TO 0400	4	1200	460	725	10	136	118		44	1300	1300	235	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200				
													4 HRS	4	4 1/3	4 1/3	4 1/3	4				
													SUMMARY									
0400 TO 0800	4	1200	460	720	10	136	118		44	1225	1225	235	RUNNING TIME		PERCENT OF SLIP							
													DETENTION TIME		BBL FUEL/MI							
0800 TO 1200	4	1200	460	725	10	135	118		45	1250	1250	235	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
 CHANGED & CLEANED STD F.O. STRAINER
 TESTED ALARMS @ 1320. STBY FOR FIRE & BOAT DRILLS @ 1400
 SEC. FROM FIRE & BOAT DRILLS @ 1425 - ~~HT~~ @ 1425.
 GRIND IN 1/4" VALVE FOR BLR. WATER TEST #4 BLR.
 SWITCH TO INBOARD SETTLER @ 1520

COND. .41 GPG

WATCH ENGR'S SIGNATURE- Karsten

1600-2000 WATCH

MACH. IN USE AS BEFORE.
 BLEW TUBES #3 & 4 BILGAS.
 CLEANED #3 BURNER ATOMIZER AND F.O. SUCTION STRAINER
 PUMPED BILGAS FROM #4 P+S DPG.

2000-2400 WATCH

MAIN & AUX COND. .41 GPG.
 UNDERWAY ON 18 NOZZLES, MACHINERY AS BEFORE. CHANGED &
 CLEANED #4 ATOMIZER & STD F.O. STRAINER. PUMPED BILGAS, MADE ROUNDS
 & INSPECTION OF MACH SPACES & EQUIPMENT. RETARDED CLOCK 20 MIN
 @ 2300. HELD CASUALTY DRILL B-1 LOSS OF FUEL OIL PRESSURE. BRIDGE
 NOTIFIED.

COND. .41 GPG.

WATCH ENGR'S SIGNATURE- *McDaniel*

2400-0400 WATCH

MACHINERY IN USE AS BEFORE. INSPECT FUEL OIL REGISTERS & CLEAN DRAIN HOLES. CLEAN
 STBR. FUEL OIL STRAINER & CHANGE #1 & 2 BURNERS. RETARD CLOCK 20 MIN. @ 0100.
 HELD CASUALTY DRILL B-1 LOSS OF FUEL OIL PRESSURE. BRIDGE NOTIFIED.
 FOUR MEN PRESENT.

COND. .41 GPG

WATCH ENGR'S SIGNATURE- Karsten

0400-0800 WATCH

AS BEFORE EXCEPT.
 CLEANED #4 BURNER & F.O. SUCTION STRAINER.
 RETARD CLOCK 20' @ 0508.
 PUMPED SETTLERS FROM #4 P+S & DEEPS.
 HELD CASUALTY DRILL B-1 (LOSS OF FUEL OIL PRESSURE). 4 MEN PRESENT. BRIDGE NOTIFIED.
 TEST RUN STBY FEED & F.O. S. PUMPS. START STBY F.O. S. PUMP.
 #3 F.O. S. PUMP COUPLING SLIPPING - SECURE BUMP. WATCH ENGR'S SIGNATURE- *McDaniel*

0800-1200 WATCH

UNDERWAY ON 18 NOZZLES, MACHINERY IN OPERATION AS BEFORE. CHANGED
 & CLEANED #5 ATOMIZER & PORT F.O. STRAINER. RENEWED COUPLING SPRING #3 F.O.
 SERVICE PUMP & BACK IN SERVICE @ 0900. #1 STM F.W. PUMP DOWN FOR REPAIRS.
 MADE ROUNDS & INSP OF MACH SPACES & EQUIPMENT.

COND. .41 GPG

WATCH ENGR'S SIGNATURE- *McDaniel*

CHIEF ENGINEER

#4 P+S DEEP TANKS EMPTY - PUMPING FROM #4 & DEEP.

#3 - STAR.	#4 PORT	B LRS.	
ALK- 12.26	8.18	STBD #3	PORT #4
T-ALK- 15.77	11.10	HOURS	HOURS
CHL- 6.21	1.66	F. 1143	F. 1233.5
		W 1143	W 1255.5
POH- 30	30		
PH- 11	11		

CHIEF ENGR'S SIGNATURE- *McDaniel*

USNS GEN. JOHN POPE (T-AP-110) VOYAGE NO. 7A FROM N.S.C. - OAKLAND TO TYPE OF VESSEL P-2-G DATE JAN. 12-13

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							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)							AUX. COND. CONDENSATE						
F.O. CONSUMED							1ST STAGE FEED WATER HEATER						
PRESSURES	THROTTLE	420	425	425	425	425	TEMPERATURES	AFT. C. FEED WATER HEATER	238	238	238	238	238
	H.P. AHEAD	420	425	425	425	425		3RD STAGE FEED WATER HEATER	135	135	135	135	135
	L.P. AHEAD	21	22	22	23	22		F.O. TO BURNERS	125	120	125	125	130
	VACUUM	30	29.8	30	29.5	29.5		F.O. BACK PRESSURE					
	L.O. TO TURBINES	12.5	12.5	12.2	12.3	12.2		AIR TO FURNACE	5	5	5	4.5	4.5
	AUX. STEAM	140	140	140	140	140		UPTAKE					
	BACK PRESSURE	9	9	9	9	9		MAIN STEAM	460	460	460	460	460
	GLAND STEAM	1	1.4	2	2	1.5		SUPER HEAT	730	725	725	722	725
	H.P. BLEEDER	82	90	70	54	60		F.O. TO BURNERS	190	190	190	190	190
	L.P. BLEEDER	6.5	6	6	6	6		F.O. TEMP. IN SETTLING TANKS	108	106	106	108	106
TEMPERATURES	L.P. BLEEDER	12	12	12	12	12	PRESSURES	PORT BOILER UPTAKE	305	295	300	300	295
	STEAM AT THROTTLE	130	725	725	722	725		STBD. BOILER UPTAKE	300	290	290	300	290
	L.P. EXHAUST	100	102	100	100	102		ENGINE ROOM TEMPERATURE	85	85	86	86	86
	CONDENSATE	94	94	94	95	94		FIRE ROOM TEMPERATURE	85	85	86	86	86
	CIRC. WATER IN	60	64	64	62	64		NOZZLES IN USE	18	18	18	18	18
	CIRC. WATER OUT	72	76	76	74	76		NO. OF BURNERS IN USE	6	6	6	6	6
	L.O. TO COOLERS	128	126	126	128	126		BURNER TIP SIZE	5 1/55	5 1/55	5 1/55	5 1/55	5 1/55
	L.O. FROM COOLERS	110	108	108	110	108		CO2 % PORT BOILER					
	TEMPERATURE THRUST BEARING	115	112	112	115	112		CO2 % STBD. BOILER					
	FORWARD H.P. ROTOR BEARING	120	122	122	120	122		OIL LEVEL MAIN SUMP	2'3"	2'3"	2'3"	2'3"	2'3"

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	4	1200	460	730	10	135	115		44	1500	1500	235	METER AT NOON	11347740	ON HAND AT START OF DAY	
													METER PREVIOUS NOON	11331990	EVAPORATED OR RECEIVED	
													CONSUMED BY METER	15750	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	
1600 TO 2000	4	1200	460	725	10	137	116		44	1400	1300	235	ON HAND AT START OF DAY		CONSUMED	
													EVAPORATED OR RECEIVED			
													ON HAND			
													CONSUMED			
2000 TO 2400	4	1200	460	725	10	136	117		44	1400	1400	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
													4	4	4	4
2400 TO 0400	4	1200	460	722	10	135	116		44	1150	1250	235	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	
0800 TO 1200	4	1200	460	725	10	135	118		45	1450	1450	235	TOTAL MILES BY OBSERVATION			

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY RUNNING = #3+4 BLRS. - #3+4 FUEL OIL PUMPS
 #3+4 F.D. WATER PUMPS. - #3+4 AUX. COND. PUMP - MAIN + AUX. CIRC. PUMPS - MAIN + AUX. AIR
 EJECTOR - #4 FRESH WATER PUMP. BRIDGE TESTED FIRE ALARM 1327. CHANGE SUCT. TO
 INBOARD SETTLER 1430. CLEAN STBD. DISC. F.O. STRAINER. PUNCH OUT DRAIN HOLES IN
 #3+4 BLR AIR REGISTER.

COND. 41 GPG.

WATCH ENGR'S SIGNATURE-

Korsten

1600-2000 WATCH

MACH. AS BEFORE.

CLEANED #3 BURNER.

BLED TUBES ON #3+4 BOILERS.

PUMPED BILGES.

PUMPED UP SETTLERS FROM #4 DEEP.

MAIN COND. 41 GPG.

WATCH ENGR'S SIGNATURE-

M. Donald

2000-2400 WATCH

UNDERWAY ON 18 NOZZLES MACHINERY IN OPERATION AS BEFORE
 CHANGED & CLEANED #4 ATOMIZER & PORT F.O. STRAINER. PUMPED INBOARD SETT
 FROM 4# DEEP. MADE ROUNDS OF MACH 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.

CHANGED & CLEANED #1+2 ATOMIZER & STBD F.O. STRAINER. PUNCH OUT DRAIN HOLES
 IN #1-2-3-4-5-6 REGISTERS.

WATCH ENGR'S SIGNATURE-

Korsten

0400-0800 WATCH

MACHINERY IN USE AS BEFORE.

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

PUMPED BILGES. TESTED MAIN + AUX COND. + M.V. FEED.

NORMAL STEAMING WATCH.

TEST RUN STBY L.O. PUMP. CLEAN L.O. STRAINERS #3+4 GEN.

DRAIN CONDENSATE FROM L.O. SUMPS #3+4 GEN.

MAIN/AUX CONDENSATE 41 GPG

M.V.F. 41 GPG

WATCH ENGR'S SIGNATURE-

M. Donald

0800-1200 WATCH

UNDERWAY ON 18 NOZZLES MACHINERY IN OPERATION AS BEFORE. CHANGED
 & CLEANED #5 ATOMIZER, & PORT F.O. STRAINER. CHANGED SUCT TO OUTBOARD SETT
 PUMPED INBOARD SETT FROM 4#. FINISHED TESTING TELEGRAPH @ 1130
 MADE ROUNDS OF MACH SPACES & EQUIPMENT. NORMAL STEAMING WATCH.

COND. 41 GPG

WATCH ENGR'S SIGNATURE-

Clemson

CHIEF ENGINEER

#3 STBD #4 PORT

BLRS.

P-ALK = 8.76 P-ALK = 8.18

STBD #3

PORT #4

T-ALK = 12.84 T-ALK = 11.68

HOURS

HOURS

CHL = 4.97 CHL = 1.24

F. 1167

F. 1279.5

PO4 = 30 ppm PO4 = 30 ppm

W. 1167

W. 1279.5

PH = 11 PH = 11

CHIEF ENGR'S SIGNATURE-

M. Donald

		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						
DETENTION TIME													
REVOLUTION COUNTER (END OF WATCH)		1888 6240	1890 3020	1892 4550	1895 2110	1897 6410	1899 6020						
TOTAL REVOLUTIONS (FOR WATCH)		22760	22780	24530	24560	24300	22610						
AVERAGE RPM		94.8	94.9	94.4	94.5	93.4	94.2						
F.O. METER (END OF WATCH)		1135 6500	1135 3070	1135 5970	1135 8810	1136 1670	1136 4380						
F.O. CONSUMED		2760	2570	2400	2840	2860	2710						
PRESSURES	THROTTLE	420	425	425	425	430	430						
	H.P. AHEAD	420	425	425	425	430	430						
	L.P. AHEAD	23	22	22	22	21	22						
	VACUUM	29	29.4	29	29	29.5	29						
	L.O. TO TURBINES	13	12	12.1	12	12	12.1						
	AUX. STEAM	135	135	137	135	135	135						
	BACK PRESSURE	9	9	9	9	9	9						
	GLAND STEAM	4	1.6	1.7	1.6	1.5	1.7						
	H.P. BLEEDER	58	70	66	74	70	68						
	L.P. BLEEDER	6.8	6	6	6	6	6						
TEMPERATURES	L.P. BLEEDER	12"	12"	12"	12"	11"	12"						
	STEAM AT THROTTLE	710	720	725	725	720	725						
	L.P. EXHAUST	100	103	100	98	103	100						
	CONDENSATE	94	97	97	96	97	96						
	CIRC. WATER IN	62	70	70	68	70	68						
	CIRC. WATER OUT	76	80	80	78	80	78						
	L.O. TO COOLERS	128	126	126	128	126	128						
	L.O. FROM COOLERS	110	108	108	110	108	110						
	TEMPERATURE THRUST BEARING	115	114	114	115	114	115						
	FORWARD H.P. ROTOR BEARING	120	125	125	120	125	120						
MACHINERY PARTICULARS		TEMPERATURES (CONT'D)		AFT. H. P. ROTOR BEARING	130	130	130	130	130	130	130		
				FORWARD L. P. ROTOR BEARING	125	130	130	125	130	125			
				AFT. L.P. ROTOR BEARING	125	125	125	125	125	125			
				HOTTEST GEAR BEARING FORWARD	150	150	150	150	150	150			
				HOTTEST GEAR BEARING AFT	140	140	140	140	140	140			
				AUX. COND. CONDENSATE	92	98	98	96	98	96			
				1ST STAGE FEED WATER HEATER	170	170	170	170	170	170			
				D. C. FEED WATER HEATER	238	238	238	238	238	238			
				3RD STAGE FEED WATER HEATER	135 1051	135 1051	135 1051	135 1051	135 1051	135 1051			
				PRESSURES		F.O. TO BURNERS	190	140	125	125	125	125	
F. O. BACK PRESSURE													
AIR TO FURNACE	4.5	4.5	5			4	4	4.7					
UPTAKE	395												
MAIN STEAM	460	460	460			460	460	460					
SUPER HEAT	710					725	720	725					
F.O. TO BURNERS	190	190	190			190	190	190					
F.O. TEMP. IN SETTLING TANKS	102	108 102	106 108			106 110	108 102	108 108					
PORT BOILER UPTAKE	295	295	305			300	295	300					
STBD. BOILER UPTAKE	290	290	290			295	290	290					
MISCELLANEOUS		ENGINE ROOM TEMPERATURE	86	86	84	84	84	85					
		FIRE ROOM TEMPERATURE	86	86	84	84	84	85					
		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	2'3"	2'3"	2'3"	2'3"	2'3"	2'3"					

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	4	1200	460	710	10	134	118		44	1400	1500	235	METER AT NOON	11364380	ON HAND AT START OF DAY	
1600 TO 2000	4	1200	460	720	10	137	118		44	1400	1525	235	METER PREVIOUS NOON	11347740	EVAPORATED OR RECEIVED	
2000 TO 2400	4	1200	460		10	135	118		45	1300	1400	235	CONSUMED BY METER	16640	ON HAND	
2400 TO 0400	4	1200	460		10	136	118		44	1250	1400	235	ON HAND AT START OF DAY		CONSUMED	
0400 TO 0800	4	1200	460	720	10	137	118		44	1400	1525	235	RECEIVED DURING DAY		ON HAND AT START OF DAY	
0800 TO 1200	3	1200	460	725	10	124	104		15	1010	1119		EXPENDED DURING DAY		RECEIVED	
	4	1200	460	725	10	138	116		45	1050	1050	235	REMAINING ON BOARD		ON HAND	
											DOMESTIC WATER					
											ON HAND AT START OF DAY		ON HAND AT START OF DAY		CONSUMED	
											EVAPORATED OR RECEIVED		EVAPORATED OR RECEIVED			
											ON HAND		ON HAND			
											CONSUMED		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 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

UNDERWAY ON 18 NOZZLES. MACHINERY RUNNING - #3 + 4 BLRS. - #3 + 4 FUEL OIL PUMPS
 #3 + 4 F.D. WATER PUMPS. #3 AUX. COND. PUMP - MAIN + AUX. CIR. PUMPS - MAIN + AUX. AIR EJECTOR
 #4 FRESH WATER PUMP. CLEANED STBD. F.O. STRAINER. PUNCH OUT DRAIN HOLES IN
 #1-2-3-4-5 + 6 AIR REGISTERS ON #3 + 4 BLRS

COND. .41 GPG.

WATCH ENGR'S SIGNATURE-

Karsten

1600-2000 WATCH

MACHINERY IN USE AS BEFORE.
 CHANGED + CLEANED #3 BURNER ATOMIZER TIP.
 CHANGED + CLEANED F.O. SUCTION STRAINER.
 ROUTINE STEAMING WATCH. CHANGED SETTLERS.

MAIN COND. .41 GPG.

WATCH ENGR'S SIGNATURE-

M. J. [Signature]

2000-2400 WATCH

UNDERWAY ON 18 NOZZLES MACHINERY IN OPERATION AS BEFORE. CHANGED
 & CLEANED #4 ATOMIZER & PORT F.O. STRAINER. CHANGED TO INBOARD SETTLER. PUMPED
 INBOARD & OUTBOARD SETTLERS FROM 7' DEEP. MADE TURNS OF ENGINE SPACES &
 EQUIPMENT. RETARDED CLOCKS 20 MIN @ 2300. NORMAL STEAMING WATCH.

COND. .41 GPG.

WATCH ENGR'S SIGNATURE-

Clemson

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES MACHINERY IN OPERATION AS BEFORE. RETARD
 CLOCKS 20 MIN @ 0100. CLEAN STBD F.O. STRAINER + PUNCH OUT DRAIN HOLES IN
 #1-2-3-4-5 + 6 AIR REGISTERS, CLEAN #1 + 2 BURNERS. ADD COMPOUND TO #3 + #4 BLRS.

COND. .41 GPG.

WATCH ENGR'S SIGNATURE-

Karsten

0400-0800 WATCH

MACHINERY IN OPERATION AS BEFORE
 CLEANED #4 F.O. BURNER ATOMIZER TIP + F.O. SUCTION STRAINER.
 RETARD CLOCK 20' @ 0550 1/2. PUMPED BILGES. STEAM ON #3 P-S + Q. DR.
 ROUTINE SEA WATCH. REINSTALL F.O. DISCH. STRAINER SHIELDS.

MAIN + AUX COND. .41 GPG.

WATCH ENGR'S SIGNATURE-

M. J. [Signature]

0800-1200 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE, EXCEPT SECURED
 AUX AIR EJECTOR, CIRCULATOR, & COND. PUMP PLANT SINGLED UP @ 1030. SHIFTED TO
 INBOARD SETT. PUMPED UP INBOARD & OUTBOARD SETT FROM 7' DEEP. CHANGED & CLEANED #5
 ATOMIZER & PORT F.O. STRAINER. STARTED #3 GEN IDLING @ 0900. MADE TURNS OF ENGINE SPACES
 & EQUIPMENT. Bilges dry. Normal steaming watch.

COND. .41 GPG

WATCH ENGR'S SIGNATURE-

Clemson

CHIEF ENGINEER

BOILER WATER READINGS

STB'D PORT 96 1/2 HRS
 F1117 HOURS 96 1/2 HRS HK F 1303
 W 1198 HOURS 96 1/2 HRS W 1303
 AKL 8.18 HK AKL 8.18
 T-AKL 11.68 T-AKL 11.68
 SAL. 4.56 SAL. 1.24
 PECS. 20 PECS 30

CHIEF ENGR'S SIGNATURE-

[Signature]

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)	AFT. H. P. ROTOR BEARING	130	130	130	130	130
DETENTION TIME								FORWARD L. P. ROTOR BEARING	125	130	125	125	130
REVOLUTION COUNTER (END OF WATCH)	1802 1540	1904 4210	1966 8440	1909 3660	1911 8280	1914 1190		AFT. L.P. ROTOR BEARING	125	125	125	130	125
TOTAL REVOLUTIONS (FOR WATCH)	22320 9	22670	24730	24720	24620	22910		HOTTEST GEAR BEARING FORWARD	150	152	150	152	150
AVERAGE RPM	93.8	94.4	95.1	95.1	94.5	95.5		HOTTEST GEAR BEARING AFT	140	140	140	140	140
F.O. METER (END OF WATCH)	1136 7060	1126 9820	1132 2580	1137 2760	1137 3730	1138 1470		AUX. COND. CONDENSATE	98	96	96	96	96
F.O. CONSUMED	2480	2760	2760	3180	1970	2740		1ST STAGE FEED WATER HEATER	170	170	170	170	170
PRESSURES	THROTTLE	420	430	430	430	430		D. C. FEED WATER HEATER	238	238	236	238	238
	H.P. AHEAD	410	430	430	430	430	BOILER PARTICULARS	3RD STAGE FEED WATER HEATER HP	135 0.51	125 0.51	135 0.51	135 0.51	135 0.51
	L.P. AHEAD	21	21	22	22	21		F.O. TO BURNERS	125	120	125	125	125
	VACUUM	29	29.5	29	29.5	29		F.O. BACK PRESSURE					
	L.O. TO TURBINES	12	12	12	12.2	12.2		AIR TO FURNACE	4.5	4.5	4.5	4.5	4.7
	AUX. STEAM	140	140	137	135	140		UPTAKE					
	BACK PRESSURE	9	9	9	9	9		MAIN STEAM	460	460	460	460	460
	GLAND STEAM	.1	6.0	1.3	1.7	.7		SUPER HEAT	730	725	725	720	715
	H.P. BLEEDER	65	60	68	66	70		F.O. TO BURNERS	190	190	190	190	190
	I.P. BLEEDER	5.5	6.0	6	6	6		F.O. TEMP. IN SETTLING TANKS	192 102	102 102	104 106	104 100	108 110
	L.P. BLEEDER	12	12	12	12	12		PORT BOILER UPTAKE	300	300	300	305	300
TEMPERATURES	STEAM AT THROTTLE	730	725	725	720	715	MISCELLANEOUS	STBD. BOILER UPTAKE	290	295	290	295	295
	L.P. EXHAUST	98	104	103	104	104		ENGINE ROOM TEMPERATURE	85	86	87	88	89
	CONDENSATE	96	99	99	98	99		FIRE ROOM TEMPERATURE	85	86	87	88	89
	CIRC. WATER IN	68	69	72	72	72		NOZZLES IN USE	18	18	18	18	18
	CIRC. WATER OUT	80	80	80	82	82		NO. OF BURNERS IN USE	6	6	6	6	6
	L.O. TO COOLERS	128	128	128	128	128		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	110		CO2 % PORT BOILER					
	TEMPERATURE THRUST BEARING	115	115	115	115	115		CO2 % STBD. BOILER					
	FORWARD H.P. ROTOR BEARING	120	120	120	120	125		OIL LEVEL MAIN SUMP	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
1200 TO 1600	3	1200	460	730	9	123	106		65	1050	1050	230	METER AT NOON	11381470
	4	1200	460	730	10	136	116		44	1250	1250	230	METER PREVIOUS NOON	11364380
1600 TO 2000	3	1200	460	725	8	124	106		65	1200	1200	235	CONSUMED BY METER	050
	4	1200	460	725	10	138	118		44	1200	1200	235	ON HAND AT START OF DAY	
2000 TO 2400	3	1200	460	725	10	128	106		65	1000	1000	235	ON HAND	
	4	1200	460	725	10	137	118		45	1050	1050	235	CONSUMED	
2400 TO 0400	3	1200	460	720	9	124	106		65	1100	1200	235	RECEIVED DURING DAY	
	4	1200	460	720	10	136	116		44	1100	1100	235	EXPENDED DURING DAY	
0400 TO 0800	3	1200	460	715	9	128	108		64	1150	1150	235	REMAINING ON BOARD	
	4	1200	460	715	10	138	118		44	1150	1150	235	ON HAND AT START OF DAY	
0800 TO 1200	3	1200	460	725	9	130	110		65	1150	1150	235	EVAPORATED OR RECEIVED	
	4	1200	460	725	10	138	117		44	1200	1200	235	ON HAND	
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
											4	4	4 1/3	4 1/3
											0400 TO 0800	0800 TO 1200	4 3/4	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. RUNNING 3-4 BARS. #3-4 FUEL OIL PUMPS. MAIN CIRC. PUMP - MAIN AIR EJECTOR - #4 FRESH WATER PUMP - #3 GENERATOR. CLEANED STD. F.O. STRAINER PUNCH OUT DRAIN HOLES IN AIR EJECTOR REGISTER #1-2-3-4-5-6. SET IN #3 GEN. @ 1540 BY ELECT.

COND. 41 GPG

WATCH ENGR'S SIGNATURE. *Korsten*

1600-2000 WATCH

MACHINERY IN OPERATION AS BEFORE
BLEW TUBES #3 & #4 BILGERS.
CLEANED #3 ATOMIZER + F.O. SECTION STRAINER.
PUMPED BILGES. ROUTINE INSP. OF MACH. + SPACES.

2000-2400 WATCH

MAIN COND. H1 G/G.
UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE
CLEANED #6 ATOMIZER, & PORT F.O. STRAINER. CHANGED TO INBOARD SETT
PUMPED INBOARD & OUTBOARD SETT FROM #2 & 3P/S DOUBLE TANKS.
MADE ROUNDS OF MACHINERY SPACES & EQUIPMENT. RETARDED CLOCK 20 MIN
@ 2300. NORMAL STEERING WATCH

COND. 41 GPG

WATCH ENGR'S SIGNATURE. *Clemens*

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. RETARD
CLOCK 20 MIN @ 0100 - ADD 1 OZ MAGNUFAS COMPOUND TO EACH BAR.
CLEANED STD. F.O. STRAINER PUNCH OUT DRAIN HOLES IN AIR REGISTER #1-2-3-4-5-6
#2 SPRING BEARING PORT SHAFT ALLEY WAS RUNNING WARM DUE TO INSUFFICIENT
WATER. O.K. NOW. CLEAN #1 & 2 FUEL OIL BURNERS

COND. 41 GPG

WATCH ENGR'S SIGNATURE. *Korsten*

0400-0800 WATCH

MACH. IN USE AS BEFORE.
CLEAN #4 ATOMIZER AND F.O. SECTION STRAINER.
RETARD CLOCK 20 @ 0450. TEST HI-SALINITY ALARM - TEST MAIN
TURBINE LOW OIL + O'SPEED. GOV.
ROUTINE INSPECTIONS OF MACHINERY + SPACES. PUMPED BILGES

MAIN COND. H1 G/G.

WATCH ENGR'S SIGNATURE. *MS Jones*

0800-1200 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED &
CLEANED #5 ATOMIZER, & PORT F.O. STRAINER. PUMPED SETTLERS FROM #3P/S D.B
TANKS. SHIFTED TO INBOARD SETTLER. SECURED & CLEANED L.O. PURIFIER. PUMPED
bilges. MADE ROUNDS OF MACHINERY SPACES & EQUIPMENT. NORMAL STEERING WATCH

COND. 41 GPG

WATCH ENGR'S SIGNATURE. *Clemens*

CHIEF ENGINEER

BOILER WATER READINGS

STB'D	PORT
HOURS F1215	F1327.3
W1215	W1327.5
AKL 8.76	AKL 9.93
T 11.18	T-AKL 12.26
SAL. 4.56 (11.24)	SAL. 12.4 (11.56)
PECS. 20	PECS. 20
R.ph 11	R.ph 11

CHIEF ENGR'S SIGNATURE. *MS Jones*

		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)		AFT. H. P. ROTOR BEARING		130	130	130	130	130	130		
DETENTION TIME										FORWARD L. P. ROTOR BEARING		130	130	130	130	130	130	130	
REVOLUTION COUNTER (END OF WATCH)		1916 4040	1918 6930	1921 1220	1923 5670	1925 1228	1928 2900			AFT. L. P. ROTOR BEARING		125	125	125	125	130	125	125	
TOTAL REVOLUTIONS (FOR WATCH)		22850	22690	24440	24470	24420	22780			HOTTEST GEAR BEARING FORWARD		150	148	148	150	148	148	148	
AVERAGE RPM		95.2	94.5	94.2	94.1	93.9	94.9			HOTTEST GEAR BEARING AFT		140	142	140	140	140	140	140	
F.O. METER (END OF WATCH)		1138 4220	1138 6970	1138 9910	1139 2820	1139 5170	1139 8520			AUX. COND. CONDENSATE		96	96	96	96	96	96	100	
F.O. CONSUMED		2750	2750	2940	2910	2950	2750			1ST STAGE FEED WATER HEATER		170	170	170	170	170	170	170	
PRESSURES		THROTTLE	425	425	425	425	425			425	D. C. FEED WATER HEATER		238	238	238	238	238	238	238
		H.P. AHEAD	425	425	425	425	425			425	3RD STAGE FEED H.P. WATER HEATER L.P.		135 135	135 135	135 135	135 135	135 135	135 135	135 135
		L.P. AHEAD	21	21	21	21	21			21	F.O. TO BURNERS		130	125	125	130	125	130	130
		VACUUM	295	295	29	29.5	29.5			29	F. O. BACK PRESSURE								
		L.O. TO TURBINES	12.2	12.2	12.2	12.2	12.2			12.2	AIR TO FURNACE		4.5	4.0	4.5	4.0	4	4	4.5
		AUX. STEAM	135	135	137	135	135			135	UPTAKE								
		BACK PRESSURE	9	9	9	9	9			9	MAIN STEAM		460	460	460	460	460	460	460
		GLAND STEAM	1	.6	.5	.1	.4			.7	SUPER HEAT		730	720	720	720	730	735	735
		H.P. BLEEDER	66	70	68	72	70			70	F.O. TO BURNERS		190	190	190	190	190	190	190
		I.P. BLEEDER	5.5	6	6	5.5	5.5			6	F.O. TEMP. IN SETTLING TANKS		108 104	110 110	108 106	112 108	110 106	110 108	110 108
L.P. BLEEDER	12"	12"	12"	12"	12"	12"	PORT BOILER UPTAKE		295	295	305	300	315	300	300				
TEMPERATURES		STEAM AT THROTTLE	730	720	720	720	730	735	STBD. BOILER UPTAKE		295	295	295	290	295	290	290		
		L.P. EXHAUST	102	104	104	104	107	104	ENGINE ROOM TEMPERATURE		90	90	89	89	90	91	91		
		CONDENSATE	96	95	110	98	106	102	FIRE ROOM TEMPERATURE		90	90	89	89	90	91	91		
		CIRC. WATER IN	70	72	70	72	74	75	NOZZLES IN USE		18	18	18	18	18	18	18		
		CIRC. WATER OUT	82	82	82	82	84	82	NO. OF BURNERS IN USE		6	6	6	6	6	6	6		
		L.O. TO COOLERS	128	128	128	128	128	128	BURNER TIP SIZE		5 1/55	5 1/55	5 1/55	5 1/55	5 1/55	5 1/55	5 1/55		
		L.O. FROM COOLERS	110	110	110	110	110	110	CO ₂ % PORT BOILER										
		TEMPERATURE THRUST BEARING	115	115	115	115	115	115	CO ₂ % STBD. BOILER										
		FORWARD H.P. ROTOR BEARING	120	120	120	120	125	120	OIL LEVEL MAIN SUMP		2'3"	2'3"	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			BOILER WATER		LUBE OIL		DOMESTIC WATER				
1200 TO 1600	3	1200	460	730	8	125	106		64	1200	1200	235	METER AT NOON	11398520		ON HAND AT START OF DAY								
													METER PREVIOUS NOON	11381470		EVAPORATED OR RECEIVED								
1600 TO 2000	4	1200	460	730	10	137	116		44	1100	1150	235	CONSUMED BY METER	17050		ON HAND								
													ON HAND AT START OF DAY			CONSUMED								
													RECEIVED DURING DAY			ON HAND AT START OF DAY								
													EXPENDED DURING DAY			RECEIVED								
2000 TO 2400	3	1200	460	720	8	130	108		64	1100	1100	235	REMAINING ON BOARD			ON HAND								
	4	1200	460	720	10	140	116		44	1100	1100	235	ON HAND AT START OF DAY			CONSUMED								
	3	1200	460	720	8	132	110		65	1150	1150	235	EVAPORATED OR RECEIVED											
2400 TO 0400	4	1200	460	720	10	137	117		44	1150	1150	235	ON HAND											
													CONSUMED											
0400 TO 0800	3	1200	460	720	9	130	108		64	1200	1200	235	LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)											
	4	1200	460	720	10	140	116		44	1100	1100	235	L.O. CENTRIFUGE - HOURS OPERATED											
0800 TO 1200	3	1200	460	730	9	130	108		64	1150	1000	235	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200						
	4	1200	460	730	10	140	116		44	1100	1100	235	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

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 CLEAN #1+2 F.O. BURNERS

COND. .41 GPG.

WATCH ENGR'S SIGNATURE-

Karsten

1600-2000 WATCH

MACH. AS ABOVE.

BLEW TUBES ON #3+4 BOILERS

CLEANED #3 ATOMIZER.

PUMPED BILGES.

NORMAL STEAMING WATCH.

MAIN COND. .41 GPG.

WATCH ENGR'S SIGNATURE-

McDonald

2000-2400 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. CHANGED
 & CLEANED #4 ATOMIZER & PORT F.O. STRAINER. CHANGED TO INBOARD SETT. PUMPED
 INBOARD & OUTBOARD SETTLERS FROM #3 P/S DOUBLE BOTTOM. MADE ROUNDS OF MACH
 SPACES & EQUIPMENT. RETARDED CLOCK 20 MIN @ 2300. NORMAL STEAMING
 WATCH.

COND. .41 GPG.

WATCH ENGR'S SIGNATURE-

Dunham

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES. MACHINERY IN OPERATION AS BEFORE. RETARD CLOCK
 20 MIN @ 0100. ENG. CASUALTY DRILL B-2 @ 0100 TO 0130 FOUR PEOPLE PRESENT

CHANGE STBD. F.O. STRAINER. CLEAN #4 PUNCH DRAIN HOLES IN #1+2 AIR
 REGISTERS.

MAIN COND. .41 GPG.

WATCH ENGR'S SIGNATURE-

Karsten

0400-0800 WATCH

MACH AS BEFORE

CLEANED #4 BURNER & F.O. SECTION STRAINER

RETARD CLOCK 20' @ 0505.

ENG. CASUALTY DRILL B-2 @ 0500 TO 0530 4 PRESENT BRIDGE NOTIFIED

PUMPED BILGES.

ROUTINE WATCH.

MAIN COND. .41 GPG.

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. CHANGED TO INBOARD SETTLER. PUMPED
 INBOARD & OUTBOARD SETT FROM #3 P/S DOUBLE BOTTOM. HELD CASUALTY DRILL B-2 WATER
 IN FUEL OIL FROM 0930-1000 BRIDGE NOTIFIED, 4 MEN. 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
HOURS F-1234	HOURS F-1351.5
W-1234	W-1351.5
AKL 8.76	AKL 9.34
T-AKL 11.68	T-AKL 12.41
SAL. 4.97	SAL. 1.24
PHOS. 20	PHOS. 30
R.ph 11	R.ph 11

CHIEF ENGR'S SIGNATURE-

Clemson