

1

ENGINE ROOM LOG

GEARED TURBINE DRIVE



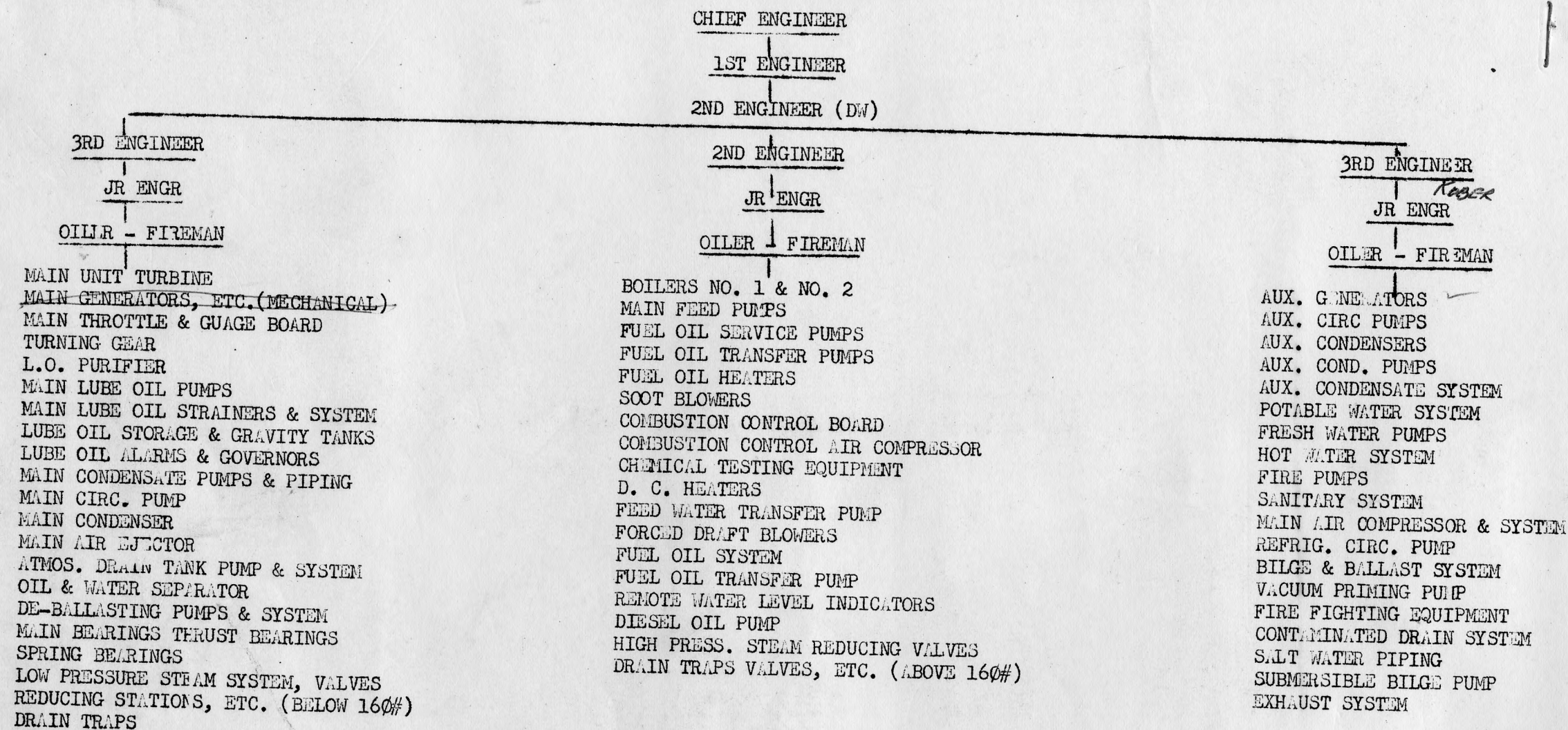
USNS GEN John Pope

FROM 6 June 1966 **TO** 30 June 1966

Read - please

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.



USNS CEN JOHN POPE VOYAGE NO. 3 FROM OAKLAND NSC TO VIETNAM TYPE OF VESSEL DATE JUN. 6-7/60

		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		120	760	260	260	240		AFT. H. P. ROTOR BEARING			138	138	136	135	138		
DETENTION TIME		66						FORWARD L. P. ROTOR BEARING			130	130	132	132	130		
REVOLUTION COUNTER (END OF WATCH)		15230	0003	0003	6260	0010		AFT. L.P. ROTOR BEARING			126	126	129	130	130		
TOTAL REVOLUTIONS (FOR WATCH)			8830	8830	23600	7520		HOTTEST GEAR BEARING FORWARD			156	158	156	155	150		
AVERAGE RPM		973		90.8	91.2	91.3	88.2	HOTTEST GEAR BEARING AFT			140	142	133	135	132		
F.O. METER (END OF WATCH)		37420	38860	40370	41790	514980		AUX. COND. CONDENSATE			82	82		84	85		
F.O. CONSUMED		1460	2720	2900	2750	2500		1ST STAGE FEED WATER HEATER			147	146	148	150	148		
MACHINERY PARTICULARS	PRESSURES	THROTTLE	440	440	440	440	440	D. C. FEED WATER HEATER			238	238	240	240	238		
		H.P. AHEAD	420	420	420	420	420	3RD STAGE FEED WATER HEATER									
		L.P. AHEAD	17	18	17	18.6	18										
		VACUUM	28.8	28.5	28.5	28.5	28.5										
	TEMPERATURES	L.O. TO TURBINES	14	14	13.5	13.5	13.5										
		AUX. STEAM	150	150	150	150	150										
		BACK PRESSURE	9	9	9	9	9										
		GLAND STEAM	0.5	1	1	1	1										
		H.P. BLEEDER		68	70		70										
		I.P. BLEEDER	7	7	7	7	7										
TEMPERATURES	PRESSURES	L.P. BLEEDER	12	12	12	12	12										
		STEAM AT THROTTLE	680	700	720	680	695										
		L.P. EXHAUST	88	90	87	90	93										
		CONDENSATE	82	82	83	84	85										
	TEMPERATURES	CIRC. WATER IN	60	60	58	62	62										
		CIRC. WATER OUT	68	68	68	70	74										
		L.O. TO COOLERS	124	124	125	126	124										
		L.O. FROM COOLERS	107	108	106	110	110										
		TEMPERATURE THRUST BEARING	115	108	118	119	112										
		FORWARD H.P. ROTOR BEARING	125	125	126	125	125										
MISCELLANEOUS		MISCELLANEOUS		MISCELLANEOUS		MISCELLANEOUS		MISCELLANEOUS		MISCELLANEOUS		MISCELLANEOUS		MISCELLANEOUS		MISCELLANEOUS	

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		BOILER WATER		LUBE OIL		
1200 TO 1600													METER AT NOON			ON HAND AT START OF DAY					
													METER PREVIOUS NOON			EVAPORATED OR RECEIVED					
													CONSUMED BY METER			ON HAND					
													ON HAND AT START OF DAY			CONSUMED					
													RECEIVED DURING DAY	19.456		ON HAND AT START OF DAY					
													EXPENDED DURING DAY	580		RECEIVED					
													REMAINING ON BOARD	18.876		ON HAND					
1600 TO 2000	1	1200	440		9	118	133		62	850	850	240	ON HAND AT START OF DAY			CONSUMED					
	2	1200	440		7.5	110	120		73	850	850	240	EVAPORATED OR RECEIVED								
2000 TO 2400	1	1200	440		9	110	120		62	850	850	240	ON HAND								
	2	1200	440		7.5	122	132		73	850	850	240	CONSUMED								
2400 TO 0400	1	1200	440		9	114	106		62	900	1000	240	LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)								
	2	1200	440		7.5	132	120		74	750	750	240	L.O. CENTRIFUGE - HOURS OPERATED								
0400 TO 0800	1	1200	440		9	118	110		62	800	800	240	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200			
	2	1200	440		7.5	128	122		64	800	800	240	4	4	4	3 2/3					
0800 TO 1200	1	1200	440		9	120	110		62	900	900	240	7-8 June SUMMARY								
	2	1200	440		7	134	120		72	900	900	240	RUNNING TIME		1500	PERCENT OF SLIP		12.7			
													DETENTION TIME			BBL FUEL/MI					
													TOTAL REVOLUTIONS		131.540	WIND DIRECTION		230°-7Kt			
													AVERAGE R.P.M.		87.6	STATE OF SEA		1st			
													TOTAL MILES BY ENGINE		487	STATE OF WEATHER		Overcast			
													TOTAL MILES BY OBSERVATION		425	Air 67.					

REMARKS

1200-1600 WATCH

TELETESTED + CLOCK SYNCH W/DRIDGE @ 1211: SCREW CLEARANCE 1315:
 JACKING GEAR DISENGAGED + ROLLING UNIT @ 1330: STBY 1345: P.F.O.M 573660;
 S.F.O.M 2427150; TACH 00003550; SHAFT CTR. 00003550: BELLS AS PER
 BELL BOOK DEPT 1605 P.F.O.M 5736790 S.F.O.M 2427540
 TACH 00006600 SHAFT CTR. DEPT. MACH. IN SERVICE
 #1 & 2 BOILER'S, F.D. FAN'S, MN. F.D. 2nd F.O. SERV. PUMPS, MN AUX CIRC. PUMPS
 D.C. GEN'S IN PARALLEL

WATCH ENGR'S SIGNATURE-

Al Kober

1600-2000 WATCH

DEPT 1654: P.F.O.M 5736930: S.F.O.M. 2427720; TACH 00009140:
 MAIN FEED Pump #1 Failure End Loss of Plant @ 1800, Z BELL 1753,
 LH 1834: INCREASED SPEED TO 16 NOZ.

WATCH ENGR'S SIGNATURE-

M. Fry

2000-2400 WATCH

Machinery as Before, Except. Set clock back 20 minutes @
 2255 - S.B.E. @ 2259 - Acc't. Poor Visibility - LH @ 2329 -

WATCH ENGR'S SIGNATURE-

M. Fry

2400-0400 WATCH

0030 PUMPED ER BILGES DRY; 0100 RETARDED CLOCK 20 MIN;
 MACH. AS BEFORE; 0220 OILER CHECKED STEERING ENG. 0323 STBY; COMPLYING W/ NITE & STANDING
 ORDERS. 0350 LH

WATCH ENGR'S SIGNATURE-

Al Kober

0400-0800 WATCH

AS BEFORE:
 Retarded Clocks @ 0445, 20 MIN;
 SEC. AUX CIRC. 2nd AIR EJECTOR FOR SINGLE PLANT OPERATION
 Routine Watch
 Complied w/ Dept Orders

WATCH ENGR'S SIGNATURE-

M. Fry

0800-1200 WATCH

As Before, Except: Blew Tubes #1 & 2 Boilers 0807-0930 -
 changed & cleaned Fuel oil Hot Strainers - Fire Drill - S.B.E. @ 1016 -
 Sec. @ 1030 - Boat Drill @ 1032, LH @ 1042 - Pumped Eng. Space Bilges
 changed to Inboard Settles @ 1145 -

NOON READINGS:

CTR-00107520 #1 FOM-2433890 #2 FOM-5742980

WATCH ENGR'S SIGNATURE-

M. Fry

CHIEF ENGINEER

7 PORT STBD

9.93	11.68	PA	Lost # 1-2 plants after Feed pump in fwd Engine room kicked out due to Electrical trouble. #2 plant was secured after gens in #1 had to be secured One hour six min Sea detention - 0%
13.13	15.18	TA	
2.07	2.07	CH	
60	70	PO ⁴	
30	33	SO ³	
604	660	SH	

CHIEF ENGR'S SIGNATURE-

J. P. Halloran

Dept @ 1654 Ctr. 00009140 P.F.O.M. 5736930 Stbd. FOM 2427720

REMARKS

1200-1600 WATCH

MACHINERY SAME AS BEFORE - P/S BOILER ON LINE W/ ALL AUX. No. 1 & 2 GEN ON LINE CROSSED OVER TO MAIN COND + CIRC. 1435 LOSING VAC ON MAIN PLANT CUT IN No. 2 MN COND PUMP. DAY 2ND ASSIST. OPENED UP VALVES TO RESERVE FEED TANK THIS SOLVED VAC. PROBLEM. 1515 PLANT RUNNING NORMAL. 1530 No. 2 COND. PUMP IS ON MAIN CONDENSER. PUMPED BILGES, SECURED STEAM TO HEATING SYST.

WATCH ENGR'S SIGNATURE-

Al. Kober

1600-2000 WATCH

Mach as before:
Blew Tubes P/S Boilers
Routine Watch

WATCH ENGR'S SIGNATURE-

C. W. Frey

2000-2400 WATCH

Machinery as Before, Except; changed & cleaned Lower Fuel oil Burner - Set clock back 10 minutes @ 2255 - Pumped 7 holds of Eng. Space Bilges - changed to Outboard Settler @ 2330 -

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

MACHINERY SAME AS BEFORE. CHANGED + CLEANED DESIGNATED F.O. BURNERS + STRAIN. MN. COND TEST - .056R. 0045 RETARDED CLOCK 30 MIN. COMPLYING W/ NIGHT + STANDING ORDERS.

WATCH ENGR'S SIGNATURE-

Al. Kober

0400-0800 WATCH

As Before:
Retarded Clock 20 Min @ 04:40:
Complied W/ Dept Orders:
HP TURB. End-Play .040; LP End-Play .110:

WATCH ENGR'S SIGNATURE-

C. W. Frey

0800-1200 WATCH

As Before, Except; Blew Tubes #1 & 2 Boilers 0805-0830 - changed & cleaned Fuel oil 1st strainer - changed to Inboard Settler @ 0930 - Pumped Eng. Space Bilges

WATCH ENGR'S SIGNATURE-

M. Fox

CTR-00244370

F1 FOM-2441460

F2 FOM-5751460

CHIEF ENGINEER

8	PORT	STBD
PA	11.68	13.43
TA	16.35	16.94
CH	2.90	2.90
PO ^H	50	65
SO ³	42	43
SH	628	684

CHIEF ENGR'S SIGNATURE-

J. A. O'Halloran

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
GEN. JOHN POPE	3	OAKLAND NSC		P-2	Wed - Thurs 6/8-9/66

		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	137	137	140	138	137	136		
DETENTION TIME		-										FORWARD L. P. ROTOR BEARING	134	133	135	134	134	135		
REVOLUTION COUNTER (END OF WATCH)		0026 6210	88300	0031 0550	0033 2410	54790	0037 6820					AFT. L.P. ROTOR BEARING	131	130	130	132	132	130		
TOTAL REVOLUTIONS (FOR WATCH)		21840	22090	22150	22060	22180	22030					HOTTEST GEAR BEARING FORWARD	153	153	150	155	155	158		
AVERAGE RPM		91.0	92	92.7	91.9	92.4	91.7					HOTTEST GEAR BEARING AFT	134	134	130	135	135	132		
F.O. METER (END OF WATCH)		5152748 244268	4300 44000	5155670 2445710	5156940 2446500	58270 47780	3459350 2449070					AUX. COND. CONDENSATE	97	97	98	95	97	98		
F.O. CONSUMED		1700	2680	2640	2500	2610	2570					1ST STAGE FEED WATER HEATER	149	149	150	151	149	150		
MACHINERY PARTICULARS		THROTTLE		440	445	445	445					445	445	D. C. FEED WATER HEATER	245	240	240	240	240	238
		H.P. AHEAD		420	430	430	425					430	430	MAN COND. WATER HEATER		0.41	.41	-.5	.41/8	.5
		L.P. AHEAD		16.5	17.5	18	17.5					18	17.5	F.O. TO BURNERS	180	180	180	180	180	180
		VACUUM		28.5	28.5	28.5	28.5	28.5	28.5	F. O. BACK PRESSURE										
		L.O. TO TURBINES		14	14	14	14	14	14	AIR TO FURNACE	132	136	135	135	138	137				
		AUX. STEAM		150	150	150	150	150	150	UPTAKE	325 290	397 293	285 290	310 300	310 290	290 280				
		BACK PRESSURE		9	9	9	9	9	9	MAIN STEAM	685	685	695	685	690	695				
		GLAND STEAM		1	1	1	1	1	1	SUPER HEAT TEMP	750	750	750 630	740	750	740				
		H.P. BLEEDER								F.O. TO BURNERS	180	200	190	190	200	190				
		I.P. BLEEDER		7	7	7	7	7	7	F.O. TEMP. IN SETTLING TANKS	89 109	94 110	98 108	98 110	104 110	100 92				
L.P. BLEEDER		12	12	12	12	12	12	PORT BOILER UPTAKE	5.5	5.2	5.8	5.5	4	4.2						
PRESSURES		STEAM AT THROTTLE		720	710	725	710	725	710	STBD. BOILER UPTAKE	6.5	5.0	5.2	6.5	5	5.4				
		L.P. EXHAUST		98	98	96	98	98	98	ENGINE ROOM TEMPERATURE	80	85	85	85	90	90				
		CONDENSATE		92	92	94	93	93	94	FIRE ROOM TEMPERATURE										
		CIRC. WATER IN		68	68	65	65	68	70	NOZZLES IN USE	16	16	16	16	16	16				
		CIRC. WATER OUT		79	78	80	80	80	80	NO. OF BURNERS IN USE	6	6	6	6	6	6				
		L.O. TO COOLERS		127	127	128	127	127	128	BURNER TIP SIZE	53/70	53/70	53/70	53/70	53/70	53/70				
		L.O. FROM COOLERS		110	109	110	110	110	110	CO2 % PORT BOILER		10.5		12	13					
		TEMPERATURE THRUST BEARING		118	118	110	118	118	110	CO2 % STBD. BOILER		11.			13.5					
		FORWARD H.P. ROTOR BEARING		125	125	128	127	126	128	OIL LEVEL MAIN SUMP	N	N	N	N	N	N				

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		
													METER AT NOON			ON HAND AT START OF DAY		
1200 TO 1600	1	1200	440		9	120	111		62	1050	-	240	METER PREVIOUS NOON			EVAPORATED OR RECEIVED		
													CONSUMED BY METER			ON HAND		
													ON HAND AT START OF DAY	18.128		CONSUMED		
1600 TO 2000	2	1200	440		7.5	139	127		72	1000	-	240	RECEIVED DURING DAY	-		ON HAND AT START OF DAY		
													EXPENDED DURING DAY	730		RECEIVED		
													REMAINING ON BOARD	17.398		ON HAND		
2000 TO 2400	1	1200	440		9	120	111		61	950		240	ON HAND AT START OF DAY			CONSUMED		
													EVAPORATED OR RECEIVED					
													ON HAND					
2400 TO 0400	2	1200	440		7.5	138	126		72	950		240	CONSUMED					
0400 TO 0800	1	1200	440		9	120	110		62	900	900	240						
0800 TO 1200	2	1200	440		7.5	136	124		72	900	900	240						
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								
SUMMARY																		
RUNNING TIME			1440			PERCENT OF SLIP			17.7									
DETENTION TIME			✓			BBL FUEL/MI			1.48									
TOTAL REVOLUTIONS			131330			WIND DIRECTION			200°-12 K									
AVERAGE R.P.M.			91.2			STATE OF SEA			Swell-6									
TOTAL MILES BY ENGINE			490			STATE OF WEATHER			C. Cast									
TOTAL MILES BY OBSERVATION			403			A=70°												

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

SUMMARY

RUNNING TIME	1440	PERCENT OF SLIP	17.7
DETENTION TIME	✓	BBL FUEL/MI	1.48
TOTAL REVOLUTIONS	131330	WIND DIRECTION	200°-12 Kt
AVERAGE R.P.M.	91.2	STATE OF SEA	Swell-6'
TOTAL MILES BY ENGINE	490	STATE OF WEATHER	C. Cast
TOTAL MILES BY OBSERVATION	403	A=70°	

REMARKS

1200-1600 WATCH

MACHINERY IN OPERATION - No. 1 + 2 BOILERS / ALL AUX. No. 1 + 2 DC GEN CROSSED OVER
 MAIN CIRC. No. 2 COND PUMP. BOTH SETTLERS WERE PUMPED. CLEANED + CHANGED DESIGNATED
 F.O. BURNERS + STRAINERS. 1430 REEFER STARTED AIR COND. UNIT. UNABLE TO TEST COND
^{A.G.K.}
 TEST EQUIP. LOCKED. PUMPED BILGES. OILER INSPECTED STEERING ENG. ROOM. 0030 TO 0100 HELD
 ENG. CASUALTY DRILL "E-1" 4 MEN PRESENT

DRILL WAS HELD ON 0000 TO 0400 WATCH A.G.K.

WATCH ENGR'S SIGNATURE-

AL Kober

1600-2000 WATCH

Underway as before:
 Blew Tubes P/S Boilers:
 Reg Routine Duties Carried Out

WATCH ENGR'S SIGNATURE-

C. J. Free

2000-2400 WATCH

as Before, Except; changed & cleaned Lower Fuel oil Burners -
 conducted Eng. Casualty Drill "E-1" - 2200-2220 - 4 men Present - Notified Bridge
 Pumped Eng. Space & #'s 2^{P/S}, 3^S & 4^{P/S} Held Bilges - changed to Inboard
 Settles @ 2330 -

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

MACH. SAME AS BEFORE. CHANGED + CLEANED DESIGNATED F.O. STRAINERS +
 BURNERS. 0030 TO 0100 HELD ENG. CASUALTY DRILL "E-1" 4 MEN PRESENT - BRIDGE NOTIFIED
 ADDED HYDRAULIC OIL TO PORT STEERING GEAR. COND. DISCHARGE TESTS - OSGR. COMPLYING
 W/ NIGHT + STANDING ORDERS. TESTED LUB. OIL STBY PUMP. PUMPED BILGES. ~~CONTINUING~~
 CLEANED BILGE PUMP SUCTION STRAINER.

WATCH ENGR'S SIGNATURE-

AL Kober

0400-0800 WATCH

Underway as before:
 Reg routing duties, tests & inspections Carried Out
 Complied W/ Dept Orders:

WATCH ENGR'S SIGNATURE-

C. J. Free

0800-1200 WATCH

#1 P 2.5' - #15-22' - DW 5'
 Machinery as Before, Except; Blew Tubes #1 & 2 Boilers 0805-0930 -
 changed & cleaned Fuel oil Hot Strainers - cleaned L.O. Centrifuge -
 changed to Outboard Settles @ 1130 - Pumped Eng. Space Bilges -

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

CTR-00376870 #1 FOM-2449070 #2 FOM-5759350

1- BOILER - 2

1226 P.A.K 11.68
 1577 T.A.K 15.77

290 CHLO 2.90
 35 PH 4 30
 35 SO. 3 47
 10 PH 11

3/28 WS. VRS. 3380
 652 FS. RS. 708

CHIEF ENGR'S SIGNATURE-

J. A. Halloran

THUR + FRI.

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
GEN. JOHN POPE	3A	OAKLAND NSC		P-2	6/9-10/66

		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		260	260	260	240	MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		AFT. H. P. ROTOR BEARING	139	138	148	140	140	138	
DETENTION TIME P.F.M.		5760 920	76230	5763 840	5765 440	76680 120	5768					FORWARD L. P. ROTOR BEARING	135	135	135	133	132	134	
REVOLUTION COUNTER (END OF WATCH)		0039 9020	43145	0045 0940	0047 0940	49490 7110	0051	MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		AFT. L.P. ROTOR BEARING	132	130	130	132	130	130	
TOTAL REVOLUTIONS (FOR WATCH)		22200	22430	29490		24030	22140					HOTTEST GEAR BEARING FORWARD	158	158	156	158	158	160	
AVERAGE RPM		92.5	93.5			92.4	92.2	MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		HOTTEST GEAR BEARING AFT	136	136	132	137	135	130	
S.F.O. METER (END OF WATCH)		2450 370	451750	2453 210	2454 630	456130	2457 520					AUX. COND. CONDENSATE	102	100	98	101	100	106	
F.O. CONSUMED		2670	2830	2980	2970	2920	2650	MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		1ST STAGE FEED WATER HEATER	151	152	154	156	150	156	
												D. C. FEED WATER HEATER	240	240	238	240	240	238	
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		3RD STAGE FEED WATER HEATER	CONDESTE	-41	-41	-41	-41	-41/7	-41
												F.O. TO BURNERS	180	180	180	180	180	180	
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		F. O. BACK PRESSURE							
												AIR TO FURNACE	138	138	138	138	136	141	
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		UPTAKE	P 310 S 285	307 280	310 280	330 285	325 285	300 295	
												MAIN STEAM	740	730	730	730	735	735	
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		SUPER HEAT	410	460	450	450	450	450	
												F.O. TO BURNERS	180	210	200	220	220	230	
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		F.O. TEMP. IN SETTLING TANKS	P 96 S 88	90 90	96 84	97 88	100 92	114 112	
												PORT BOILER UPTAKE	6.5	6.5	6.5	6.5	7	6	
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		STBD. BOILER UPTAKE	4.	4	4	4	4.3	5	
												ENGINE ROOM TEMPERATURE	90	90	90	90	90	90	
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		FIRE ROOM TEMPERATURE							
												NOZZLES IN USE	18	18	18	18	18	18	
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		NO. OF BURNERS IN USE	6	6	6	6	6	6	
												BURNER TIP SIZE	53/70	53/70	53/70	53/70	53/70	53/70	
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		CO ₂ % PORT BOILER		13.5		14.5	14.5		
												CO ₂ % STBD. BOILER		14.5		15.5	13.5		
								MACHINERY PARTICULARS (CONT'D)		TEMPERATURES (CONT'D)		OIL LEVEL MAIN SUMP	N	N	N	N	N	N	

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	1	1200	440		9	122	112		62	1050	40	240	METER AT NOON		ON HAND AT START OF DAY			
													METER PREVIOUS NOON		EVAPORATED OR RECEIVED			
1600 TO 2000	2	1200	440		7	140	128		72	950	60	240	CONSUMED BY METER		ON HAND	98		
	1	1200	440		9	122	112		62	1100	1100	240	ON HAND AT START OF DAY	17.398	CONSUMED			
													RECEIVED DURING DAY		ON HAND AT START OF DAY			
													EXPENDED DURING DAY	814	RECEIVED			
2000 TO 2400	2	1200	440		7	140	128		72	1100	1100	240	REMAINING ON BOARD	16.584	ON HAND			
	1	1200	440		9	120	110		62	950	950	240	ON HAND AT START OF DAY		CONSUMED			
													EVAPORATED OR RECEIVED					
													ON HAND	1208				
2400 TO 0400	2	1200	440		7	136	126		72	950	950	240	CONSUMED					
	1	1200	440		9	120	111		62	1000	1000	240	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
0400 TO 0800	2	1200	440		7	140	128		72	1000	1000	240						
	1	1200	440		9	119	110		62	1000	1000	240	SUMMARY					
													RUNNING TIME	1500	PERCENT OF SLIP	13.8		
													DETENTION TIME	✓	BBL FUEL/MI			
0800 TO 1200	2	1200	440		7	138	126		72	1000	1000	240	TOTAL REVOLUTIONS	136,200	WIND DIRECTION	110°-8kt		
	1	1200	440		9	120	110		62	1300	1300	240	AVERAGE R.P.M.	90.8	STATE OF SEA	Swell-5'		
													TOTAL MILES BY ENGINE	504	STATE OF WEATHER	Clear		
													TOTAL MILES BY OBSERVATION	434	Air 75°			

REMARKS

1200-1600 WATCH

UNDERWAY-ON 18 NOZZLES AT 1320/ FOLLOWING MACHINERY IN OPERATION Nos 1+2
BOILERS w/AUX - Nos 1+2 GENERATORS CROSSED OVER - NO2 COND PUMP - PORT STEERING GEAR -
CHANGED + CLEANED TOP F.O. BURNER IN EACH BOILER - CLEANED STB¹ DISCHARGE F.O. STRAINER -
1455 TIED DC GEN FWD + AFT ENG. ROOM BY CH. ELECT - CH. ENG. IN FWD ENG. ROOM 1320 TO 1330 -
PUMPED BILGES - MAIN COND. DISCHARGE TEST MINUS .05 GR -

WATCH ENGR'S SIGNATURE-

al Kober

1600-2000 WATCH

Underway as before:
Blew Tubes P/S Boilers:
Reg. routine watch duties, tests + insp. carried out
Co

WATCH ENGR'S SIGNATURE-

CW Frey

2000-2400 WATCH

Machinery as Before, Except; changed & cleaned Lower Fuel oil
Burner - cleaned Bilge Pump Suct. Strainer - Set clock back 20
minutes @ 2248 - Pumped fwd. Space Bilges - changed to Inboard
Settler @ 2330 -

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY SAME AS BEFORE - 0040 RETARDED CLOCK 20 MIN. - CHANGED +
CLEANED TOP F.O. BURNERS IN EACH BOILER - PUMPED BILGES - CALLED CH. ELECTRICIAN
AFTER BEING ADVISED OF A SMOKING VENT. FAN - COMPLYING w/NIGHT + STANDING ORDERS.

WATCH ENGR'S SIGNATURE-

al Kober

0400-0800 WATCH

Under way on 18 Nozzles
Retarded Clock 20 Min @ 0500 Casualty E-1 (Loss of #1 MN Feed
Pump & Low Water in Boiler, Fires Secured & Mn Unit Slowed Down @ 0430
CH/ENGR Notified & in E.R. @ 0437; Condition corrected & Full speed resumed
@ 05:00 CH/ENGR retired from E.R. :) Reg routine Watch duties, Tests and
inspection of mach spaces carried out: Complied w/Dept Orders
#1 P-16' #15-8-DW-5

WATCH ENGR'S SIGNATURE-

CW Frey

0800-1200 WATCH

Machinery as Before, Except; Blew Tubes #1 & 2 Boilers 0805 to 0825 -
@ 0847 Slowed Main Unit to 14 to install new Sockets in #1 & 2 Feed Pumps -
Chief Engin, First Asst Engin, & Day 2nd. assisting - LH @ 0930 - changed & cleaned Port Fuel oil
Hot Strainer - changed to Outboard Settler @ 1120 - Pumped fwd. Space Bilges -

SHAFT-

CTR- 00512890 #1 FOM-2457520 #2 FOM-24 5768120 WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

1 BOILER 2

7:18 P. ALK 10:51

15:27 T. ALK 1402

7:49 CHLO 3.31

50 PH. 4 50

40 SO. 3 35

10.5 PH 10.5

3132 WS. HRS. 3404

676 RS. RS. 732

CHIEF ENGR'S SIGNATURE-

J. O'Hillman

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	AFT. H. P. ROTOR BEARING	134	138	136	137	137	138
DETENTION TIME PFM	5729	5710	5712	5713	715310	5776	FORWARD L. P. ROTOR BEARING	134	133	134	133	132	134
REVOLUTION COUNTER (END OF WATCH)	0053	00730	0058	0061	006510	0065	AFT. L. P. ROTOR BEARING	132	130	130	130	130	132
TOTAL REVOLUTIONS (FOR WATCH)	22460	21720	25730	24830	24660	22750	HOTTEST GEAR BEARING FORWARD	160	160	160	160	160	160
AVERAGE RPM		90.5	98.9	95.5	94.9	94.7	HOTTEST GEAR BEARING AFT	145	135	130	135	135	135
F.O. METER (END OF WATCH)	2458	460350	2461	2463	464590	2465	AUX. COND. CONDENSATE	102	102	104	102	102	104
F.O. CONSUMED	2680	2760	2930	2920	2970	2730	1ST STAGE FEED WATER HEATER	154	151	156	153	151	154
PRESSURES	THROTTLE	440	440	440	440	440	D. C. FEED WATER HEATER	240	240	240	242	240	240
	H.P. AHEAD	410	420	425	415	420	3RD STAGE FEED WATER HEATER	240	240	240	242	240	240
	L.P. AHEAD	19.5	20	21	20.5	20	F.O. TO BURNERS	180	180	180	180	180	180
	VACUUM	28.5	28.3	28.3	28.3	28.2	F. O. BACK PRESSURE						
	L.O. TO TURBINES	14	14	14	14	14	AIR TO FURNACE	142	139	140	138	138	136
	AUX. STEAM	150	150	150	150	150	UPTAKE	310	310	315	320	340	315
	BACK PRESSURE	9	9	9	9	9	MAIN STEAM	735	735	740	735	735	740
	GLAND STEAM	2	2	2	2	2	SUPER HEAT	450	450	450	450	450	450
	H.P. BLEEDER	70			80		F.O. TO BURNERS	240	190	220	220	220	230
	I.P. BLEEDER	7	7	7	7	7	F.O. TEMP. IN SETTLING TANKS	120	90	112	110	104	106
TEMPERATURES	L.P. BLEEDER	-12"	11	12"	-12"	12	PORT BOILER UPTAKE	6	6.2	6.2	6.3	6.3	6.6
	STEAM AT THROTTLE	705	710	710	705	705	STBD. BOILER UPTAKE	5	4	4.4	4.5	4.0	4.8
	L.P. EXHAUST	103	101	104	102	98	ENGINE ROOM TEMPERATURE	90	95	95	95	95	95
	CONDENSATE	98	97	100	97	98	FIRE ROOM TEMPERATURE						
	CIRC. WATER IN	73	73	75	73	73	NOZZLES IN USE	18	18	18	18	18	18
	CIRC. WATER OUT	84	84	84	84	84	NO. OF BURNERS IN USE	6	6	6	6	6	6
	L.O. TO COOLERS	128	128	128	128	128	BURNER TIP SIZE	53/40	53/70	53/70	53/70	53/70	53/20
	L.O. FROM COOLERS	110	110	110	110	110	CO ₂ % PORT BOILER		13			13.5	
	TEMPERATURE THRUST BEARING	119	120	118	118	119	CO ₂ % STBD. BOILER		14			14.5	
	FORWARD H.P. ROTOR BEARING	125	125	125	125	125	OIL LEVEL MAIN SUMP	N	N	N	N	N	N

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	
1200 TO 1600	1	1200	440	9	120	111		62	1100			230	METER AT NOON	ON HAND AT START OF DAY
	2	1200	440	9	142	130		72	1150			230	METER PREVIOUS NOON	EVAPORATED OR RECEIVED
1600 TO 2000	1	1200	440	9	119	109		62	1000	1000		240	CONSUMED BY METER	ON HAND
	2	1200	440	7	140	127		72	1000	1000		240	ON HAND AT START OF DAY	CONSUMED
2000 TO 2400	1	1200	440	9	120	110		62	950	950		240	RECEIVED DURING DAY	ON HAND AT START OF DAY
	2	1200	440	7	142	128		72	950	950		240	EXPENDED DURING DAY	RECEIVED
2400 TO 0400	1	1200	440	9	118	110		62	1100			235	REMAINING ON BOARD	ON HAND
	2	1200	440	7	141	129		72	1000			235	ON HAND AT START OF DAY	CONSUMED
0400 TO 0800	1	1200	440	9	117	108		62	1100			240	EXPENDED DURING DAY	ON HAND AT START OF DAY
	2	1200	440	7	140	127		72	1100			240	RECEIVED DURING DAY	RECEIVED
0800 TO 1200	1	1200	440	9	120	110		62	1300	1300		240	RECEIVED DURING DAY	ON HAND AT START OF DAY
	2	1200	440	7	140	128		72	1300	1300		240	EXPENDED DURING DAY	RECEIVED

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

SUMMARY			
RUNNING TIME	1500	PERCENT OF SLIP	13.9
DETENTION TIME	✓	BBL FUEL/MI	1.54-1.79
TOTAL REVOLUTIONS	139,770	WIND DIRECTION	210°-1615k
AVERAGE R.P.M.	93.1	STATE OF SEA	Swells-3'
TOTAL MILES BY ENGINE	2517	STATE OF WEATHER	Q. Cast
TOTAL MILES BY OBSERVATION	445	Air 740	

REMARKS

1200-1600 WATCH

Underway on 18 Nozzles - FOLLOWING MACHINERY IN OPERATION - No. 1 + 2 BOILERS / THEN
 AUXILIARY MACHINERY - STEBBY FEED PUMP LINED UP TO No. 2 BOILER - No. 1 + 2 GENERATORS CROSSED OVER
 TO MN COND + COND PUMPS. - PORT STEERING GEAR ON THE LINE - 1315 & 1415 ELECTRICIANS OPERATED
 EMER. GEN w/LOAD OF 180 AMPS - CLEANED BILGE SECTION STRAINER + PUMPED BILGES. 1445 CLEARED
 ALL WATERTIGHT DOORS FOR COLLISION DRILL - CLEANED STD DISCHARGE F.O. STRAINER - 1515 EMERGENCY
 DRILLS - MR. FREY 2ND ASSIST MR. SEGGERMAN 3RD ASSIST PRESENT FOR DRILLS ALSO CH. ENG.

WATCH ENGR'S SIGNATURE -

Al Kober

1600-2000 WATCH

Underway on 18 Nozzles:
 Blew Tubes P/S Boilers:

Reg routine watch duties, tests and Insp. of mach spaces carried out:
 Complied w/Dept orders

WATCH ENGR'S SIGNATURE -

C. W. Frey

2000-2400 WATCH

Underway on 18 Nozzles.

Machinery as Before, Except; changed & cleaned Lower Fuel oil Burners -
 changed & cleaned #1 Gen. Lube oil Strainers - Set Clock Back 20 minutes
 @ 2248 - changed to Inboard Settler @ 2325 - Pumped frg. Space Bilges

WATCH ENGR'S SIGNATURE -

M. Fox

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES - MACHINERY SAME AS BEFORE - COMPLYING w/NIGHT +
 STADING ORDERS - DIOO RETARDED CLOCK 20 MIN. - CHANGED + CLEANED TOP BURNERS
 IN EACH BOILER - PUMPED BILGES -

WATCH ENGR'S SIGNATURE -

Al Kober

0400-0800 WATCH

Underway on 18 NOZZLES: PLANT Operation as before: Routine duties
 carried out, Boiler Water & Condste tests, Center burners Cleaned
 bilges pumped: Complied w/Dept orders: F.O. Register Dr holes free:
 mach spaces & steering gear inspected: CH/Engl in E.R from
 0645-0703: Clock Retarded 20 Min @ 0445:

WATCH ENGR'S SIGNATURE -

C. W. Frey

0800-1200 WATCH

Machinery as Before, Except; Blew Tubes #1 & 2 Boilers 0805-0825
 changed & cleaned Port Fuel oil Hot Strainer - changed to outboard
 Settler @ 1110 - Pumped frg. Space Bilges -

WATCH ENGR'S SIGNATURE -

M. Fox

Shift Counter: 00664285
 CHIEF ENGINEER

BOILER

1	2
11.68 P. ALK	11.10
15.77 T. ALK	15.18
2.49 CHLO	2.90
60 PH. 4	40
40 SO. 3	35
11 PH	10.5
3774 RS. HRS.	3428
700 FS. RS.	754

CHIEF ENGR'S SIGNATURE -

J. O'Halloran

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	246	240	240	MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING	137	137	138	137	137
DETENTION TIME								FORWARD L. P. ROTOR BEARING	134	130	132	133	130
REVOLUTION COUNTER (END OF WATCH)	0068 6990	8690	0073 3340	7980	0080 2970			AFT. L. P. ROTOR BEARING	131	132	130	133	120
TOTAL REVOLUTIONS (FOR WATCH)	22710	23460	22890	22250	23250	23150		HOTTEST GEAR BEARING FORWARD	160	160	160	161	160
AVERAGE RPM	94.6	99.7	95.3	96.9	96.9	96.3		HOTTEST GEAR BEARING AFT	135	135	135	137	135
F.O. METER (END OF WATCH)	82.53 340	47950	8250 470	8250 470	55590	8253 120		AUX. COND. CONDENSATE	103	102	98	99	100
F.O. CONSUMED	2710	2610	2520	2500	2620	2530		1ST STAGE FEED WATER HEATER	150	155	158	158	157
MACHINERY PARTICULARS	THROTTLE	440	440	440	450	445		D. C. FEED WATER HEATER	240	240	23.8	240	240
	H.P. AHEAD	420	420	425	420	435	BOILER PARTICULARS	3RD STAGE FEED WATER HEATER	41	41.75	.4	.4	.4175
	L.P. AHEAD	20	21	25	25	26		F.O. TO BURNERS	180	180	180	180	180
	VACUUM	28.5	28	28.2	28.5	28.2		F. O. BACK PRESSURE					
	L.O. TO TURBINES	14	14	14	14	14		AIR TO FURNACE	136	135	134	134	133
	AUX. STEAM	150	150	150	150	150		UPTAKE	330 290	320 280		323 295	320 285
	BACK PRESSURE	9	9	9	9	9		MAIN STEAM	740	750	750	750	740
	GLAND STEAM	2.05	0.5	.5	1.5	1.5		SUPER HEAT	450	455	440	450	460
	H.P. BLEEDER	80						F.O. TO BURNERS	225	200	190	190	200
	I.P. BLEEDER	7	7	7	7	7		F.O. TEMP. IN SETTLING TANKS	110 100	107 104	106 102	104 104	103 94
PRESSURES	L.P. BLEEDER	-0.12	12	12	12	9	TEMPERATURES	PORT BOILER UPTAKE	6.5	6	6.2	6	6
	STEAM AT THROTTLE	710	725	725	720	720		STBD. BOILER UPTAKE	5	3.2	3.4	4.5	3.5
	L.P. EXHAUST	102	102	102	102	103		ENGINE ROOM TEMPERATURE	95	95	95	95	90
	CONDENSATE	100	100	98	99	101		FIRE ROOM TEMPERATURE					
	CIRC. WATER IN	72	72	70	72	72		NOZZLES IN USE	18	18	18	18	18
	CIRC. WATER OUT	84	84	84	84	84		NO. OF BURNERS IN USE	6	6	6	6	6
	L.O. TO COOLERS	128	128	128	128	128		BURNER TIP SIZE	53/70	53/70	53/70	53/70	53/70
	L.O. FROM COOLERS	110	110	110	110	110		CO2 % PORT BOILER		12.5			13.5
	TEMPERATURE THRUST BEARING	118	118	118	118	118		CO2 % STBD. BOILER		12.5			13.5
	FORWARD H.P. ROTOR BEARING	125	125	125	125	125		OIL LEVEL MAIN SUMP	N	N	N	N	N
TEMPERATURES							MISCELLANEOUS						

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	FUEL OIL	BOILER WATER	LUBE OIL	
1200 TO 1600	1	1200	440		9	119	110		62	1200	-	METER AT NOON	23.970	ON HAND AT START OF DAY	
												METER PREVIOUS NOON		EVAPORATED OR RECEIVED	23
												CONSUMED BY METER	31.980	ON HAND	138
												ON HAND AT START OF DAY	15.784	CONSUMED	
												RECEIVED DURING DAY		ON HAND AT START OF DAY	
												EXPENDED DURING DAY	761	RECEIVED	
												REMAINING ON BOARD	15.023	ON HAND	
1600 TO 2000	1	1200	440		9	118	108		62	1100		ON HAND AT START OF DAY	1200	CONSUMED	
												EVAPORATED OR RECEIVED	153		
												ON HAND	1100		
												CONSUMED	253		
2000 TO 2400	1	1200	440		9	120	110		62	1100	1100	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
															2
2400 TO 0400	1	1200	440		9	120	111		62	1100	-	SUMMARY			
												RUNNING TIME	1440	PERCENT OF SLIP	14.17
												DETENTION TIME	✓	BBL FUEL/MI	1.51-1.77
												TOTAL REVOLUTIONS	135.460	WIND DIRECTION	260°-20 kt
												AVERAGE R.P.M.	94.06	STATE OF SEA	3'-260°
												TOTAL MILES BY ENGINE	501	STATE OF WEATHER	Cloudy
0400 TO 0800												TOTAL MILES BY OBSERVATION	430	Air 72°	
0800 TO 1200	1	1200	440		9	120	110		62	1100	1100				

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES - FOLLOWING MACHINERY IN OPERATION B1-B2 - F-1-F-2 - L1-M1
M2 - D1-D2 - P1-P2 - C1-S-2 - FSI - MER. CHANGED + CLEANED ST68 F.O. DISCHARGE STRAINER -
COMPLYING W/NIGHT + STANDING ORDERS + CH ENGR + 2ND ASSIST (DW) IN ER 1330 TO 1400 - PUMPED BILGES.
1515 BLEW TUBES BOTH BOILERS W/PERMISSION FROM BRIDGE. - 1540 SECURED BLOWING TUBES.
1545 SEC. G-2

WATCH ENGR'S SIGNATURE-

Al Keber

1600-2000 WATCH

UNDERWAY ON 18 NOZZLES: PLANT OPERATION AS BEFORE EXCEPT SECURED
#1 GEN.: ROUTINE WATCH DUTIES CARRIED OUT Boiler W/Condste Tests
F.O. Burners Cleaned W/ Register drain holes free: machinery spaces W/
steering gear inspected: Complied W/Dept Orders:

WATCH ENGR'S SIGNATURE-

C. W. Grey

2000-2400 WATCH

Machinery as Before, except: changed & cleaned Lower Fuel oil Burners -
Cleaned & changed #2 Gen. Fuel oil strainer - Drained & opened #2 aux. Condenser & Fuel
oil cooler for cleaning - changed to Inboard Settler @ 2325 - Pumped Grog. Space Bilges -

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES - MACHINERY SAME AS BEFORE - CHANGED + CLEANED TOP F.O.
BURNERS EACH BOILER - PUMPED BILGES - COMPLYING W/NIGHT + STANDING ORDERS

WATCH ENGR'S SIGNATURE-

Al Keber

0400-0800 WATCH

UNDERWAY ON 18 NOZZLES: PLANT OPERATION AS BEFORE:
ROUTINE DUTIES CARRIED OUT: F.O. STRAINERS CLEANED, REGISTER DRAIN HOLES
FREE, BOILER WATER W/CONDSTE TESTED, MACHINERY SPACES INSPECTED:
Complied W/Dept orders: 1/2 Gal L.O. TO #1 & #2 MN FLEP PUMPS EXH.

WATCH ENGR'S SIGNATURE-

C. W. Grey

0800-1200 WATCH

Machinery as Before, except: Blew Tubes #1 & #2 Boilers 0805/0825 -
Changed & cleaned, G.O. Fuel oil 1st Strainer - Ship's Force working on #2
aux. Condenser - S.B.G. @ 1012 - Poor Visibility 4H @ 1019 - changed to outboard
Settler @ 1125 - Pumped Grog. Space Bilges -

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

#1	#2
11.68 PAH	10.51
15.77 TAH	14.02
2.49 CHL	3.31
60 PH	40
40 SH	33
11 PH	11
3482 WS	728
3198 FS	724

CHIEF ENGR'S SIGNATURE-

J. O. Halloran

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	AFT. H. P. ROTOR BEARING	138	136	140	138	137	138
DETENTION TIME							FORWARD L. P. ROTOR BEARING	132	130	135	133	133	136
REVOLUTION COUNTER (END OF WATCH)	0082 5990	849130	0087 4128	6089 9230	924400	0094 7380	AFT. L.P. ROTOR BEARING	132	130	130	132	132	130
TOTAL REVOLUTIONS (FOR WATCH)	23020	23140	24990	25110	25230	22980	HOTTEST GEAR BEARING FORWARD	160	160	160	158	160	160
AVERAGE RPM	95.8	96.4	96.1	96.5	96.6	95.7	HOTTEST GEAR BEARING AFT	136	143	145	137	136	136
F.O. METER (END OF WATCH)	82.60 710	862760	8366 130	8268 950	271810	8274 390	AUX. COND. CONDENSATE	97	98	100	99	99	100
F.O. CONSUMED	2690	2050	3370	2820	2860	2580	1ST STAGE FEED WATER HEATER	157	156	156	157	156	158
PRESSURES	THROTTLE	440	450	440	440	450	445	D. C. FEED WATER HEATER	240	240	240	240	238
	H.P. AHEAD	420	435	425	425	43	430	3RD STAGE FEED WATER HEATER	41	41/7	40K	41/7	4
	L.P. AHEAD	24.5	26	26	25	25.5	21	F.O. TO BURNERS	180	180	180	180	180
	VACUUM	28.5	28.2	28.2	28	28.2	28.2	BACK PRESSURE		0.41	40K	0.41	4
	L.O. TO TURBINES	14	14	14	14	13.8	14	AIR TO FURNACE	136	136	138	136	136
	AUX. STEAM	150	150	150	150	150	150	UPTAKE	325 280	330 290	370 315	370 320	375 315
	BACK PRESSURE	9	9	9	9	9	9	MAIN STEAM	740	710	725	700	715
	GLAND STEAM	1.5	1.5	1.5	1.5	1.5	1.5	SUPER HEAT	450	460	450	460	460
	H.P. BLEEDER							F.O. TO BURNERS	190	200	200	190	190
	L.P. BLEEDER	7	7	7	7	7	7	F.O. TEMP. IN SETTLING TANKS	95 95	94 95	102 104	132 115	128 114
TEMPERATURES	L.P. BLEEDER	12	8	9	10	9	10	PORT BOILER UPTAKE	6	6	7	7	7
	STEAM AT THROTTLE	710	680	695	700	690	695	STBD. BOILER UPTAKE	5	4	5	5	3.5
	L.P. EXHAUST	102	103	104	100	103	103	ENGINE ROOM TEMPERATURE	90	85	90	90	90
	CONDENSATE	97	99	100	100	99	100	FIRE ROOM TEMPERATURE					
	CIRC. WATER IN	72	72	72	72	72	72	NOZZLES IN USE	18	18	18	18	18
	CIRC. WATER OUT	82	82	84	83	82	84	NO. OF BURNERS IN USE	6	6	6	6	6
	L.O. TO COOLERS	127	128	128	128	128	128	BURNER TIP SIZE	53/70	53/70	53/70	53/70	53/70
	L.O. FROM COOLERS	109	110	110	110	110	110	CO ₂ % PORT BOILER		14.5	12.5	13.5	13.5
	TEMPERATURE THRUST BEARING	118	118	120	118	118	118	CO ₂ % STBD. BOILER		13.0	14	14	13.5
	FORWARD H.P. ROTOR BEARING	126	124	125	125	125	125	OIL LEVEL MAIN SUMP	N-	N	N	N	N

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	1	1200	440		9	120	111		62	1050	1050	240	METER AT NOON	73.690	ON HAND AT START OF DAY	138
													METER PREVIOUS NOON	40.250	EVAPORATED OR RECEIVED	13
													CONSUMED BY METER	33.440	ON HAND	122
													ON HAND AT START OF DAY	15.023	CONSUMED	29
													RECEIVED DURING DAY		ON HAND AT START OF DAY	
													EXPENDED DURING DAY	796	RECEIVED	
													REMAINING ON BOARD	14.227	ON HAND	
1600 TO 2000	1	1200	460		9	119	110		62	1100	1100	240	ON HAND AT START OF DAY	1200	CONSUMED	
													EVAPORATED OR RECEIVED	123		
													ON HAND	1218		
													CONSUMED	105		
2000 TO 2400	1	1200	440		9	120	110		62	1100	1100	240	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
2400 TO 0400	1	1200	440		9	120	111		62	1000	1000	240	4	4	4 1/3	4 1/3
0400 TO 0800	1	1200	440		9	121	112		62	1000	1000	240	SUMMARY			
													RUNNING TIME	1500	PERCENT OF SLIP	13.6
													DETENTION TIME	✓	BBL FUEL/MI	1.52-1.76
													TOTAL REVOLUTIONS	141,110	WIND DIRECTION	210°-10Kt
													AVERAGE R.P.M.	94.07	STATE OF SEA	Swell-2'
													TOTAL MILES BY ENGINE	522	STATE OF WEATHER	ptly Cloudy
0800 TO 1200	2	1200	440		7	132	122		72	1500	1500	240	TOTAL MILES BY OBSERVATION	451		Am 75

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES - FOLLOWING MACHINERY IN SERVICE B1 + B2 - F1 + F2 - L1 - M1
G1 + MC2 - D + D2 - P1 + P2 - C1 - S2 - FS1 - MER. COMPLYING ^W/NIGHT + STANDING ORDERS - CHANGED
+ CLEANED STB/L F.O. DISCHARGE STRAINER - TOOK UP ON STEAM LEAKS - CH. ENGR IN ENGINE ROOM 1330 TO 1345
1515 OBTAINED PERMISSION BRIDGE FOR BOTH ER TO BLOW TUBES - BLEW TUBES BOTH BOILERS - CLEANED BILGE
SUCT STRAINER - PUMPED BILGES ER + No. 4 PFS.

FEED WATER TANK No. 1, DPP TEST ~~14~~ 14/GR.

WATCH ENGR'S SIGNATURE-

Al. Kober

1600-2000 WATCH

Underway ON 18 NOZZLES: Plant operations as before;
Routine Watch duties carried out; F.O. Burners & Strainers cleaned,
Register drain holes free, Boiler & Condste tests, Inspection of
machinery spaces & steering gear; Complied w/Dept orders
Added 1 gal. L.O. To #1 and 2 MN Feed Pumps

WATCH ENGR'S SIGNATURE-

CW Frey

2000-2400 WATCH

Machinery as before, except; changed & cleaned all Burners in #2 Boiler
Lower Burner in #2nd Boiler - Set clock back 20 minutes @ 2236.
Ship's face shaking on #2 aux. Generator condenser & L.O. Cooler - changed to
Inboard Settler @ 2325 - Pumped frg. Space Bilges - changed & cleaned Lub
oil Strainer #1 aux. Generator -

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES - MACHINERY AS BEFORE - COMPLYING ^W/NIGHT + STANDING ORDERS.
0100 RETARDED CLOCKS 20 MIN - CHANGED + CLEANED TOP F.O. BURNER BOTH BOILERS - SEC. HEAT
STEAM TO PSETT - PUMPED BILGES

WATCH ENGR'S SIGNATURE-

Al. Kober

0400-0800 WATCH

Underway ON 18 NOZZLES: PLANT OPERATION AS BEFORE: RETARDED
CLOCK 20 MIN @ 0500: Routine Watch duties carried out; F.O. STRAINERS
CLEANED, REGISTER DR. HOLES FREE, BOILER & CONDSTE TESTS, Inspection of
machinery spaces & steering gear; Complied w/Dept orders: CH/ENGR
in E.R. 0650-0710: Added 1 Gal L.O. To #1 & 2 MN Fe Pumps

WATCH ENGR'S SIGNATURE-

CW Frey

0800-1200 WATCH

Machinery as before, except; Blew Tubes #1 & 2 Boilers 0800-0820 -
changed & cleaned Port Fuel oil Hot Strainer - Lit off #2 aux. Turb. Gen. @
0830 - on Line @ 1015 & secured #1 Gen. @ 1016 - changed to outboard settler @
1115 - Pumped frg. Space & #4 P/S Hld Bilges -

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

#2 #1
10.51 PAL 11.68
15.77 TAL 15.77
2.90 CHL 4.14
40 BOH 40
37.50³ 33
10.5 PH 10.5
3476 WS 3222
802 FS 748

CHIEF ENGR'S SIGNATURE-

J. A. O'Halloran

		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		137	137	137	138	137	138	
DETENTION TIME										FORWARD L. P. ROTOR BEARING		133	130	134	135	131	134	
REVOLUTION COUNTER (END OF WATCH)		6097 0230	93030	0101 5920	0103 8900	6150 4370	0108 4370			AFT. L. P. ROTOR BEARING		132	132	130	132	130	131	
TOTAL REVOLUTIONS (FOR WATCH)		22850	22800	22890	22880	22700	22840			HOTTEST GEAR BEARING FORWARD		158	158	158	158	158	158	
AVERAGE RPM			95	95.3	95.3	94.7	95.1			HOTTEST GEAR BEARING AFT		135	134	130	130	135	135	
F.O. METER (END OF WATCH)		8277 030	79580	8282 130	8284 670	67860	8289 830			AUX. COND. CONDENSATE		100	101	100	100	100	100	
F.O. CONSUMED		2640	2550	2550	2540					1ST STAGE FEED WATER HEATER		155	153	156	154	154	158	
PRESSURES		THROTTLE	450	440	445	440	440			440	D. C. FEED WATER HEATER		240	240	238	240	240	238
		H.P. AHEAD	425	420	420	415	420			420	3RD STAGE FEED WATER HEATER		41/7	41/7	4	4	41/7	4
		L.P. AHEAD	21.5	22	22	21	21			21	F.O. TO BURNERS		210	200	200	200	200	190
		VACUUM	28.5	28.2	28.2	28.5	28.2			28.2	F.O. BACK PRESSURE TEST		41	4	4	4	41	4
		L.O. TO TURBINES	21.5	14	14	14	14			14	AIR TO FURNACE		140	136	138	138	137	140
		AUX. STEAM	150	150	150	150	150			150	UPTAKE		340 295	370 280	320 310	320 310	320 310	305 300
		BACK PRESSURE	9	9	9	9	9			9	MAIN STEAM		740	730	730	740	738	730
		GLAND STEAM	2	2	2	2	1.5			1.5	SUPER HEAT		450	450	450	450	450	450
		H.P. BLEEDER									F.O. TO BURNERS		210	200	190	200	205	210
		L.P. BLEEDER	7	7	7	7	7			7	F.O. TEMP. IN SETTLING TANKS		113 106	101 102	110 104	112 106	112 106	106 106
TEMPERATURES		L.P. BLEEDER	10	10	10	10	10	10	PORT BOILER UPTAKE		645	7	7	7	7	6		
		STEAM AT THROTTLE	700	710	700	710	710	710	STBD. BOILER UPTAKE		5	4	5	5	4	4		
		L.P. EXHAUST	103	100	104	103	103	104	ENGINE ROOM TEMPERATURE		90	90	90	90	90	90		
		CONDENSATE	100	97	102	99	100	103	FIRE ROOM TEMPERATURE									
		CIRC. WATER IN	72	72	75	75	75	75	NOZZLES IN USE		18	18	18	18	18	18		
		CIRC. WATER OUT	84	84	84	84	85	86	NO. OF BURNERS IN USE		6	6	6	6	6	6		
		L.O. TO COOLERS	128	128	128	128	128	128	BURNER TIP SIZE		53/70	53/70	53/70	53/70	53/70	53/70		
		L.O. FROM COOLERS	110	110	110	110	110	110	CO ₂ % PORT BOILER		14.5	14	14	14	13.5	14		
		TEMPERATURE THRUST BEARING	118	118	118	118	118	118	CO ₂ % STBD. BOILER		13.5	13	13	13	13	13		
		FORWARD H.P. ROTOR BEARING	125	125	125	125	125	125	OIL LEVEL MAIN SUMP		N	N	N	N	N	N		

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		
1200 TO 1600	2	1200	440		7.2	139	128		72	1125	1125	240	METER AT NOON	105.900	BOILER WATER	ON HAND AT START OF DAY	122	
													METER PREVIOUS NOON	73.690		EVAPORATED OR RECEIVED	45	
													CONSUMED BY METER	32.210		ON HAND	115	
													ON HAND AT START OF DAY	14.227	LUBE OIL	CONSUMED	52	
													RECEIVED DURING DAY	-		ON HAND AT START OF DAY		
													EXPENDED DURING DAY	767		RECEIVED		
1600 TO 2000	2	1200	440		7.2	137	124		72	1250	1250	235	REMAINING ON BOARD	13.460		ON HAND		
													ON HAND AT START OF DAY	1218		CONSUMED		
													EVAPORATED OR RECEIVED	223				
2000 TO 2400	2	1200	440		7	136	124		72	1200	1200	240	ON HAND	1222				
													CONSUMED	219				
													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	1440	PERCENT OF SLIP	12.63		
													DETENTION TIME	✓	BBL FUEL/MI	1.54-1.76		
													TOTAL REVOLUTIONS	134,570	WIND DIRECTION	0100-10kt		
													AVERAGE R.P.M.	93.45	STATE OF SEA	Waves 2'		
													TOTAL MILES BY ENGINE	498	STATE OF WEATHER	pt Cloudy		
													TOTAL MILES BY OBSERVATION	435	A=74			
0800 TO 1200	2	1200	440		7	138	120		72	1500	1500	240						

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES - FOLLOWING MACHINERY IN SERVICE B1+B2-F1+F2-L1-M1-G2
 MC2-D1+D2-P1+P2-C1-S2-FS1-MER-OPENING UP LUB.OIL COOLER ON G1-DAY WORKERS CLEANING +
 INSPECTING G1 CONDENSOR - CH. ENGR. IN ENG. ROOM 1320 & 1330 - 1420 CH. ENG. 1ST ASSIST ENG + DAY 2ND IN F.O.,
 ENGINE ROOM TO TEST LOW LUB OIL TRIP + OVERSPEED TRIP ON FORWARD MAIN TURBINE - PUMPED BILGES. F.W.
 COMPLYING ^W/NIGHT + STANDING ORDERS - CHANGED + CLEANED STBY F.O. DISCH. STRAINER. 1540 SEC BLOWING TUBES. MUF
 BLEW TUBES IN BOTH BOILERS AT ONCE, THIS IS TOO MUCH STEAM DRAIN ON PLANT TOO MUCH MAKEUP FEED MU-U

WATCH ENGR'S SIGNATURE-

Al Koker

1600-2000 WATCH

UNDERWAY ON 18 NOZZLES: PLANT OPERATION AS BEFORE - EXCEPT OIL LEAKING
 FROM BOTTOM REGISTER. ON #2 BOILER CLEANED ALL 3 BURNERS + CENTER BURNER ON
 #1 BOILER ROUTINE WATCH DUTIES CARRIED OUT, BOILER + CONDSTE TESTS. F.O.,
 STEERING GEAR + MACH'Y SPACES INSPECTED, BILGES PUMPED, COMPLIED F.W.
 W/DEPT ORDERS: REGISTER DRAIN HOLES FREE: CH MUF
 MU-U
 EVAP
 GAL-D

WATCH ENGR'S SIGNATURE-

C. W. Gray

2000-2400 WATCH

MACHINERY AS BEFORE, EXCEPT; CHANGED + CLEANED LOWER FUEL OIL BURNER
 CHANGED + CLEANED FUEL OIL STRAINER #2. CHANGED TO INBOARD SETTLER @ 2320 F.O.,
 PUMPED F.W. SPARE BILGES. MUF
 MU-U
 EVAP
 GAL-D

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES: CROSSED INTERNATIONAL DATE LINE @ 0001
 COMPLYING ^W/NIGHT + STANDING ORDERS - CLEANED TOP F.O. BURNERS IN EACH BOILER
 CHANGED + CLEANED LUB.OIL STRAINER - INSTALLED VALVE NAME PLATES - BILGES DRY. F.O.,
 F.W.
 MUF
 MU-U
 EVAP
 GAL-D

WATCH ENGR'S SIGNATURE-

Al Koker

0400-0800 WATCH

UNDERWAY ON 18 NOZZLES: PLANT OPERATION AS BEFORE: ROUTINE DUTIES
 CARRIED OUT, BOILER + CONDSTE TESTS, MACH'Y SPACES + STEERING GEAR
 INSP., BILGES PUMPED, F.O. + L.O. STRAINERS CLEAN. BURNER REG. F.O.,
 DRAIN HOLES FREE, COMPLIED W/DEPT ORDERS: CH/ENGR IN E.R 0705 F.W.
 0715: MUF
 MU-U
 EVAP
 GAL-D

WATCH ENGR'S SIGNATURE-

C. W. Gray

0800-1200 WATCH

MACHINERY AS BEFORE, EXCEPT; BLEW TUBES 0900-0915 - CHANGED + CLEANED
 FUEL OIL STRAINER - CHANGED TO INBOARD SETTLER @ 1120 - SHIP'S FACE
 SHAKING ON #1 AUX. GEN. CONDENSED F.O. COOL - PUMPED F.W. SPARE BILGES. F.O.,
 F.W.
 MUF
 MU-U
 EVAP
 GAL-D

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

BOILER

2 1
 10.51 P. ALK 10.51
 15.77 T. ALK 14.66
 33.1 CHLO 3.31
 30 PH 4 95
 33 SC 3 35
 3500 Wt 3.3246
 826 FS 3.772

CHIEF ENGR'S SIGNATURE-

C. W. Gray

		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					
DETENTION TIME												137 137 137 137 137 137					
REVOLUTION COUNTER (END OF WATCH)		0110 7260	0110 7990	0115 4910	0117 9690	04070 04070	0122 6970					132 130 132 132 130 134					
TOTAL REVOLUTIONS (FOR WATCH)		22890	22760	25010	24780	24380	22900					AFT. L.P. ROTOR BEARING					
AVERAGE RPM		95.3	94.8	96.1	95.3	93.8	95.4					132 130 130 132 130 130					
F.O. METER (END OF WATCH)		8292 350	94990	8297 770	8300 540	03360	8305 940					HOTTEST GEAR BEARING FORWARD					
F.O. CONSUMED		2520	2640	2780	2770	2820	2580					140 158 158 158 158 153					
												HOTTEST GEAR BEARING AFT					
												149 150 150 150					
												AUX. COND. CONDENSATE					
								100 102 102 102 102 102									
								1ST STAGE FEED WATER HEATER									
								154 156 156 156 156 156									
								D. C. FEED WATER HEATER									
								240 240 238 240 240 240									
								3RD STAGE FEED WATER HEATER									
								COND. TEST .41 GR. .41/7 .4 .4 .41/8 .4									
								BOILER PARTICULARS		TEMPERATURES		F.O. TO BURNERS					
												190 190 190 190 190 190					
												F.O. BACK PRESSURE					
												TEST .6 GR. .41 .5 .5 0.41 .5					
												AIR TO FURNACE					
												140 137 140 141 141					
												UPTAKE					
												P 320 300 310 310 310 300 S 305 282 310 310 305 285					
												MAIN STEAM					
												700 740 740 710 730 730					
								MISCELLANEOUS				SUPER HEAT					
												460 450 450 458 450 450					
												F.O. TO BURNERS					
												225 205 200 190 190					
												F.O. TEMP. IN SETTLING TANKS					
												P 110 88 120 100 110 110 S 110 88 102 100 106 106					
												PORT BOILER UPTAKE					
												6 6.5 6 6 5.8 5.8					
												STBD. BOILER UPTAKE					
												5 3.5 4 5 4.5 4.5					
												ENGINE ROOM TEMPERATURE					
												90 90 90 90 90 90					
												FIRE ROOM TEMPERATURE					
												NOZZLES IN USE					
												18 18 18 18 28 18					
												NO. OF BURNERS IN USE					
												6 6 6 6 6 6					
												BURNER TIP SIZE					
												53/70 53/70 53/70 53/70 53/70 53/70					
												CO ₂ % PORT BOILER					
												13.5 13 13 13 13.5 13					
												CO ₂ % STBD. BOILER					
												13 13.5 13.5 14 14.5 14.5					
												OIL LEVEL MAIN SUMP					
												N N N N N N					

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	2	1200	440		7	140	126		72	1300	1300	240	METER AT NOON 39520 METER PREVIOUS NOON 05900 CONSUMED BY METER 33.620 ON HAND AT START OF DAY 13.460 RECEIVED DURING DAY — EXPENDED DURING DAY 800 REMAINING ON BOARD 126.66	ON HAND AT START OF DAY 12.22 EVAPORATED OR RECEIVED 244 ON HAND 1249 CONSUMED 217	ON HAND AT START OF DAY 115 EVAPORATED OR RECEIVED 52 ON HAND 117 CONSUMED 56			
1600 TO 2000	2	1200	440		7	138	126		22	1200	1200	240						
2000 TO 2400	2	1200	440		7	138	126		72	1150	1150	240						
2400 TO 0400	2	1200	440		7	140	127		72	1000	1000	240						
0400 TO 0800	2	1200	440		7	140	127		72	1250	1250	240						
0800 TO 1200	2	1200	440		7	140	127		72	1500	1500	240						
													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 1/2	4 1/2	4 1/3	4
													SUMMARY					
													RUNNING TIME	1500	PERCENT OF SLIP	9.56		
													DETENTION TIME	✓	BBL FUEL/MI	1.53-1.69		
													TOTAL REVOLUTIONS	140,250	WIND DIRECTION	090°-10kts		
													AVERAGE R.P.M.	93.5 523	STATE OF SEA	2'		
													TOTAL MILES BY ENGINE	473	STATE OF WEATHER	Shower		
													TOTAL MILES BY OBSERVATION	9.5	A=78.			