

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES - FOLLOWING MACHINERY IN OPERATION - B1+B2 - F1+F2 - L1-M1-M2
 MC2 - D1+D2 - P1+P2 - C1-S2 - FSI-MER - ADJUSTED STD BOILER FEED WATER REGULATOR + PUT SAME
 IN OPERATION - CHANGED + CLEANED LUB OIL STRAINER, INBOARD STRAINER BASKET HAD HOLE TORE IN
 IT. 1ST ASSIST HAVING IT REPAIRED - 1330 CH ENGR. IN ER ALSO 1ST ASSIST CHANGED + CLEANED
 STD F.O. STRAINER - CH. ELECT SUBMITTED HIS WEEKLY CHECK OFF LIST 1450 - EMERG. GEX TEST 30 MIN @ 170 AMPS
 STBY @ 1545 GEN DRILLS w/ FIRE DRILL - PERMISSION NOT GRANTED TO BLOW TUBES CH ENG 2 1/2 + 3 1/2 PRESENT IN ER FOR DRILLS
 BILGES DRY. 4H @ 1555 - PER/GRANTED TO BLOW TUBES @ 1557 WATCH ENGR'S SIGNATURE. *al Kober*

1600-2000 WATCH

UNDERWAY ON 18 NOZZLES: PLANT OPER. AS BEFORE: BLEW TUBES SIMULTANEOUSLY
 P/S BOILERS, DC HEATER WATER LEVEL DROPPED TO LOW LEVEL W/ BOTH EXTRA FEED VALVES
 OPEN, CONDENSER LEVEL OK: ROUTINE WATCH DUTIES CARRIED OUT, BOILER + CONDSTE
 TESTS, F.O. STRAINERS CLEANED, BURNER REGISTER DRAIN HOLES FREE, MACHY SPACES AND
 STEERING GEAR INSPECTED: CH/ENGR IN ER. 1820-1835: CONDUCTED ENGINEERING
 CASUALTY DRILL E-2 BOILER TUBE FAILURE 1730-1750, BRIDGE NOTIFIED 4 MEN
 ADDED 3 QTS L.O. TO EACH MN FEED PUMP WATCH ENGR'S SIGNATURE. *W. J. J.*

2000-2400 WATCH

Machinery as Before, Except; changed & cleaned Lower Fuel oil Burner - changed
 & cleaned #2 Generator Lube oil Strainers - conducted eng. casualty drill "E-2" 2200 -
 2220 - 4 men present - Bridge notified - changed to Inboard Settler @ 2320 -
 Set clock back 20 minutes @ 2252 - Pumped frg. Space & 2 1/2, 3 1/2, &
 4 1/2 Hdd Bilges - Secured Fresh Water System @ 2130 For Blowing Rejins -
 WATCH ENGR'S SIGNATURE. *M. Fox*

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES - MACHINERY AS BEFORE - COMPLYING w/ NIGHT + STANDING ORDERS
 REEFER HENRY REPAIRED LUB OIL STRAINER BASKET - RETARDED CLOCK @ 0100 - CHANGED + CLEANED TOP
 F.O. BURNERS BOTH BOILERS - 0230 HELD ENG. CASUALTY DRILL "E-2", 4 MEN PRESENT, NOTIFIED BRIDGE -
 BILGES DRY -
 WATCH ENGR'S SIGNATURE. *al Kober*

0400-0800 WATCH

UNDERWAY ON 18 NOZ. PLANT OPER. AS BEFORE: RETARDED CLOCK 20
 MIN @ 0500: MN ENG CASUALTY - LOW OIL PRES TRIP ACTUATED, SECURING
 MN THROTTLE STM.: CH/ENGR IN ER 0520-0540: INFORMED JR ENGR OF
 WEARING GOGGLES WHEN COMPOUNDING BOILER: ROUTINE DUTIES CARRIED OUT
 BOILER & CONDSTE TESTS: F.O. STRAINERS + CENTER BURNERS CLEANED, REGISTER DRAIN
 HOLES FREE, STEERING GEAR & MACHY SPACES INSPECTED, BILGES + HALLS PUMPED;
 ADDED 1/2 gal L.O. TO EACH MN FEED PUMP WATCH ENGR'S SIGNATURE. *W. J. J.*

0800-1200 WATCH

As Before, Except: Blew Tubes #1 & 2 Boilers 0800-0815 - changed &
 cleaned Port Fuel oil Hot Strainer - changed to Outboard Settler @ 1120
 Pumped frg. Space Bilges - S.B.E. @ 0855 4H @ 0856.5 Gen Visibility -
 WATCH ENGR'S SIGNATURE. *M. Fox*

CHIEF ENGINEER

2 BOILER 2

1051 P. ALK 10.51
 1285 T. ALK 14.60
 331 CHD 2.90
 75 PH 4 40
 40 SO. 3 33
 356 WS. HRS. 10.3
 756 FS. HRS. 3524
 756 850

CHIEF ENGR'S SIGNATURE. *W. J. J.*

MACHINERY PARTICULARS

FUEL - WATER AND LUBE OIL					
FUEL OIL	METER AT NOON	71.640	BOILER WATER	ON HAND AT START OF DAY	117
	METER PREVIOUS NOON	39520		EVAPORATED OR RECEIVED	47
	CONSUMED BY METER	32.120		ON HAND	122
	ON HAND AT START OF DAY	12.660		CONSUMED	42
	RECEIVED DURING DAY	—		ON HAND AT START OF DAY	
	EXPENDED DURING DAY	765		RECEIVED	
DOMESTIC WATER	REMAINING ON BOARD	11.895	LUBE OIL	ON HAND	
	ON HAND AT START OF DAY	1249		CONSUMED	
	EVAPORATED OR RECEIVED	260			
	ON HAND	1305			
	CONSUMED	204			

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES - FOLLOWING MACH. IN OPERATION - B1 + B2 - F1 + F2 - L1 - M1 - G2
 MC2 - D1 + D2 - P1 + P2 - C1 - S2 - FSI - MER - CLEANED CENTER BURNER B1 DUE TO SMOKE - 1ST ASSIST
 CONDUCTED INDOCTRINATION IN EMERGENCY CASUALTY STEERING - BLEW DOWN, ADJUSTED FW REGULATOR F.O. 1280
 STBL BOILER AGAIN, POT SAME ON LINE @ 1245. CHANGED + CLEANED LUB OIL STRAINER MW TURB: CHANGED F.W. 1284
 OVER + CLEANED STBL F.O. DIS. STRAINER - PUMPED BILGES - 1515 BLEW TUBES W/ BRIDGE PERMISSION MUF 17.5
 SEC. BLOWING TUBES 1540 MU-U 4.2
 EVAP 182
 GAL-1 12600

WATCH ENGR'S SIGNATURE-

Al Kaber

1600-2000 WATCH

UNDERWAY AS BEFORE ON 18 NOZZLES: ROUTINE DUTIES CARRIED OUT, BOILER
 TESTS + INSPECTION OF MACHINERY SPACES & STEERING GEAR: F.O. STRAINERS
 CLEAN, BURNER REGISTER DRAIN HOLES FREE: BILGES PUMPED: WATER-TIGHT F.O.
 DOOR #4 SEC FROM BRIDGE @ 1907: ADDED 2 GAL. L.O. TO #2 MN FO DUMP F.W. 1286
 MUF 86
 MU-U 5
 EVAP 1-2
 GAL-D 1288

WATCH ENGR'S SIGNATURE-

CW Frey

2000-2400 WATCH

Machinery as Before; changed & cleaned Lower Fuel oil Burner - Water Tight
 Door @ Frame 6-118-1 Inoperative - Held Eng. Casualty "E-3" 2200-2220 - 4 men
 Present - Bridge notified: Pumped Eng. Space & #1's 2 P/S, 3 P/S, & 4 P/S Held Bilge - F.O.
 changed to 2 board bottles @ 2345 - Cleaned Bilge Pump Strainer - F.W. 1291
 MUF
 MU-U
 EVAP
 GAL-L

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES - MACHINERY SAME AS BEFORE - COMPLYING W/ NIGHT + STANDING ORDERS
 CHANGED + CLEANED TOP BURNER IN EACH BOILER - HELD ENG. CASUALTY "E-3" 0200 & 0230 4 MEN PRESENT
 BRIDGE NOTIFIED: PUMPED BILGES - JACKED 10LE GEN (G1) OVER 1 1/4" TURNS UNDER OIL PRESS. F.O. 1301
 F.W. 1301
 MUF 15.3
 MU-U 64
 EVAP 182
 GAL-D 12800

WATCH ENGR'S SIGNATURE-

Al Kaber

0400-0800 WATCH

UNDERWAY ON 18 NOZZLES; PLANT OPERATION AS BEFORE: ROUTINE DUTIES
 CARRIED OUT, F.O. STRAINERS + BURNERS CLEANED, BOILER & CONDSTE TESTS
 INSP. OF MACHINERY SPACES & STEERING GEAR: BURNER REGISTER DRAIN F.O.
 HOLES FREE: CONDUCTED CASUALTY DRILL E-3 HIGH SALINITY IN BOILER F.W. 1290
 MUF 13
 MU-U 8
 EVAP 182
 GAL-1 1273
 0600 - 0615, 4-MEN-BRIDGE NOTIFIED: COMPLIED W/ DEPT ORDERS:
 BILGES PUMPED: ADDED L.O. TO

WATCH ENGR'S SIGNATURE-

CW Frey

0800-1200 WATCH

Machinery as Before; Blew Tank #1 & 2 Boilers 0800-0815 - changed & cleaned
 Port Fuel oil Hot Strainer - Raising Vacuum on #1 aux. Pumps - New. Condenser @ 1025, Idling
 Machine @ 1035 - Hand Pipe Tested O.K. - changed to Outboard bottles @ 1125 - Pumped
 Eng. Space Bilges - F.O.
 F.W. 1305
 MUF 14.2
 MU-U 7.5
 EVAP 1-2
 GAL-

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

BOILER

2	1
1168	P. ALK 10.51
1635	F. ALK 14.60
4.14	CHLO 3.73
30	PH. 4 40
50	SO. 3 40
105	PH 10.5
3548	WS. HRS. 3292
874	PS. HRS. 820

CHIEF ENGR'S SIGNATURE-

J. O'Halloran

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES - FOLLOWING MACHINERY IN OPERATION - B+B2 - F1+F2 - L1-M1
G1+G2 - MC2 - D1+D2 - P1+P2 - C1 - FSI-MER - E1+E2 - LCI - A.COON - ACCP - ACCW - AER AND
STBY FEED PUMP IS ON STBY BOILER, 1300 CH. ELECT CUT INGI + SPLIT FUD + AFTER - 1350
WIPER 389-6 FOREIGN PARTICLE IN LEFT EYE - COMPLYING W/ NIGHT + STANDING ORDERS - PUMPED BILGES
SHIFTED OVER + CLEANED STBY F.O. DISCH. STRAINER - BLEW TUBES BOTH BOILERS W/ BRIDGE PERMISSION
@ 1545 - SECURED BLOWING TUBES @ 1545

WATCH ENGR'S SIGNATURE-

al Kober

1600-2000 WATCH

UNDERWAY ON 18 NOZZLES: PLAN OPERATION AS ABOVE, 222VAC @ 0600: ROUTINE W/ TUBES
CARRIED OUT; F.O. BURNERS + STRAINERS CLEANED; BOILER W/ CONDSTE TESTS, BURNER
REGISTER DRAIN HOLES FREE; INSPECTION OF MACH SPACES + STEERING GEAR;
COMPLIED W/ DEPT ORDERS; PUMPED BILGES; #1 W.T.D. SEC from Bridge @ 1930
ADDED 1/2 GAL L.O. TO #1 & #2 MN FD PUMPS

WATCH ENGR'S SIGNATURE-

CW Frey

2000-2400 WATCH

Machinery as Before, Except; changed & cleaned Lower Fuel oil Burners - changed
& cleaned #1 & #2 Fuel oil Strainers - Set Clock Back 20 minutes @ 2252 - Pumped
Eng. Space Bilges - changed to Inboard Settler @ 2320 - Chief Dist. Vokel on Watch
Don @ Frame 6-118-1 - #1 L.P. Eng. Secured @ 2200 For Repair -

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY ON 18 NOZZLES - MACHINERY SAME AS BEFORE - COMPLYING W/ NIGHT + STANDING
ORDERS - 1230 BLEW TUBES PORT BOILER W/ BRIDGE PERMISSION (UPTAKE TEMP REACHED 400°F)
REEFER ADDED 28 GAL WATER TO A.COND - 0100 RETARDED CLOCK 20 MIN. - CHANGED & CLEANED
TOP BURNERS IN EACH BOILER - PUMPED BILGES - CHANGED & CLEANED L.O. STRAINER MN
TURBINE -

WATCH ENGR'S SIGNATURE-

al Kober

0400-0800 WATCH

UNDERWAY ON 18 NOZZLES; PLANT OPERATION AS BEFORE ROUTINE DUTIES
CARRIED OUT, F.O. STRAINERS CLEANED, F.O. REGISTERS DRAIN HOLES FREE, INSPECTION OF
MACH SPACES + STEERING GEAR: RETARDED CLOCK 20 MIN @ 0500;
BILGES PUMPED, CH/ENGR IN E.R. 0645 - 0705;

WATCH ENGR'S SIGNATURE-

CW Frey

0800-1200 WATCH

Machinery as Before, Except; Blew Tubes #1 & #2 Boilers 0800-0815 - changed &
cleaned Port Fuel oil Hot Strainers - S.B.E. @ 0945; LH @ 1007 Trouble
in aft. Eng. R.M. - changed to Outboard Settler @ 1125 - Pumped Eng.
Space Bilges

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

Air Conditioning unit lit off @ 1300

2 BOILER

11.68 P.ALK 10.51
16.35 T.ALK 14.66
4.14 CHLO 3.73
30 PH. 4 30
50 SO. 3 50
10.5 PH 10.5
35.2 WS. HRS. 3336
90.2 FS. HRS. 844

CHIEF ENGR'S SIGNATURE-

J. O'Halloran

REMARKS

1200-1600 WATCH

UNDERWAY ON 18 NOZZLES - FOLLOWING MACHINERY IN OPERATION - B1+B2 - F1+F2 - L1 - M1 - G1+G2
 M2 - D1+D2 - P1+P2 - FSI - MER - ~~E1+E2~~ - LC1 - A, COND - ACCP - ACCW - AER - REEFER ADDED
 20 GAL. WATER TO A. COND. CHANGED & CLEANED STB F.O. DISCH STRAINER - TURNED OVER STBdy
 F.O. + L.O. FEED PUMPS - PUMPED BILGES & CLEANED BILGE SUCTION STRAINER - 1515 BLEW TUBES
 w/BRIDGE PERMISSION - LOST STEAM PRESS WHILE BLOWING TUBES HAD TO SLOW DOWN MAIN TURBINE

F.O. 6865L
 F.W.
 MUF 17.5
 MU-U 4.2
 EVAP 1+2
 GAL-D

WATCH ENGR'S SIGNATURE-

Al Kober

1600-2000 WATCH

Underway on 18 NOZ. w/REDUCED SPEED TO RECOVER STEAM PRES.: REDUCED SPEED
 TO 16 NOZ. @ 1650 B/O CH/ENGR, CH/E IN ER. 1650-1705: ROUTINE DUTIES CARRIED
 OUT, F.O. BURNERS & STRAINERS CLEANED, BURNER REGISTER'S DRAIN HOLES FREE:
 BOILER & CONDSTE TESTS, MACHINERY SPACES & STEERING GEAR INSPECTED:
 Complied w/Dept orders; INSTRUCTED PERSONNEL (4) MEN CASUALTY DRILL
 E-4 RUPTURED FIRE MAIN 1830-1850: BILGES PUMPED

F.O.
 F.W. 1301
 MUF 17.
 MU-U 4.
 EVAP #2
 GAL-D 6900

WATCH ENGR'S SIGNATURE-

Cliffrey

2000-2400 WATCH

Machinery as Before, except; changed & cleaned Lower Fuel oil Burner - changed
 & cleaned #1 Sec. L.O. Strainers - Conducted Eng. Casualty Drill "E-4" 2200-2220
 4 men Present - Bridge notified - changed to Inboard Sitter @ 2325 - Pumped
 Eng. Space Bilges - CONDUCTED CASUALTY DRILL E-4 - FOUR MEN PRESENT NOTIFIED
 BRIDGE - ENTERED WRONG PLACE
 Al Kober

F.O.
 F.W.
 MUF 16.8
 MU-U 4.9
 EVAP #2
 GAL-D

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY ON 16 NOZZLES - MACHINERY SAME AS BEFORE - COMPLYING w/NIGHT + STANDING
 ORDERS - CLEANED LUB OIL STRAINER - CHANGED & CLEANED TOP F.O. BURNERS B1+B2 - CONDUCTED FIRE
 ENG. CASUALTY DRILL E-4, FOUR MEN PRESENT, BRIDGE NOTIFIED - PUMPED BILGES -

F.O. 6265L
 F.W.
 MUF 17.5
 MU-U 4.2
 EVAP
 GAL-D 4700

WATCH ENGR'S SIGNATURE-

Al Kober

0400-0800 WATCH

UNDERWAY ON 16 NOZZLES; OPERATION AS BEFORE: ROUTINE DUTIES CARRIED OUT
 F.O. STRAINERS CLEANED, BURNER REGISTER DRAIN HOLES FREE: INSPECTION OF MACHINERY
 SPACES & STEERING GEAR, BOILER and CONDSTE. TESTS, PUMPED BILGES: ADDED 692
 L.O. TO #2 MAIN FO PUMP (STRAINER GASKET LEAKING PROFOUNDLY)

F.O.
 F.W. 1334
 MUF 15.
 MU-U 6
 EVAP
 GAL-D 5200

WATCH ENGR'S SIGNATURE-

Cliffrey

0800-1200 WATCH

Machinery as Before - Blew Tubes #1 & 2 Boiler 0815-0830 - changed &
 cleaned Port Fuel oil Hot Strainers - @ 1100 Increased Speed to 18 Nozzles -
 Slowed to 16 Nozzles @ 1150 - changed to Outboard Sitter @ 1130 - Pumped
 Eng. Space Bilges -

F.O.
 F.W.
 MUF
 MU-U
 EVAP
 GAL-D

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

2 BOILER /

1051 P. ALK 1031
 1460 T. ALK 1460
 497 CHLO 414
 40 PH. 4 40
 65 SO. 3 65
 10.5 PH 10.5
 356 WS. HRS. 3360
 926 FS. HRS. 868

CHIEF ENGR'S SIGNATURE-

Jr 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	MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING	138	138	137	137	137
DETENTION TIME								FORWARD L. P. ROTOR BEARING	135	133	132	131	132
REVOLUTION COUNTER (END OF WATCH)	0166 3200	85570	81700	0173 9480	57770	0178 0140	TEMPERATURES (CONT'D)	AFT. L. P. ROTOR BEARING	133	132	130	132	130
TOTAL REVOLUTIONS (FOR WATCH)	34680 8 HRS	22370	23910	24180	24110	22370		HOTTEST GEAR BEARING FORWARD	155	155	155	153	153
AVERAGE RPM	93	93.2	91.9	93	92.7	93.2	BOILER PARTICULARS	HOTTEST GEAR BEARING AFT	147	144	145	145	146
F.O. METER (END OF WATCH)	8359 140	67010	83605	8367 880	70930	8373 610		AUX. COND. CONDENSATE	119	120	120	120	118
F.O. CONSUMED	3150	2870	3050	2820	3050	2680	PRESSURES	1ST STAGE FEED WATER HEATER	162	161	162	162	160
MACHINERY PARTICULARS	THROTTLE	450	450	450	440	440		D. C. FEED WATER HEATER	240	240	240	240	240
	H.P. AHEAD	430	430	430	430	420	TEMPERATURES	2ND STAGE FEED WATER HEATER	41	41/7	4	4	41/7
	L.P. AHEAD	22.5	23	23	23	22		F.O. TO BURNERS	190	190	190	190	190
	VACUUM	28.5	27.6	27.8	28.5	27.8	PRESSURES	DRY BACK PRESSURE	41	041	4	4	0.41
	L.O. TO TURBINES	13	13.5	13.5	13.5	13.5		AIR TO FURNACE	154	151	152	152	153
	AUX. STEAM	150	150	150	150	150	TEMPERATURES	UPTAKE	325 320	310 295	350 305	350 315	405 310
	BACK PRESSURE	9	9	9	9	9		MAIN STEAM	740	730	730	730	740
	GLAND STEAM	2.0	1.5	1.5	1.5	1.5	PRESSURES	SUPER HEAT	460	460	460	460	450
	H.P. BLEEDER							F.O. TO BURNERS	225	220	205	200	190
	I.P. BLEEDER	7	7	7	7	7	TEMPERATURES	F.O. TEMP. IN SETTLING TANKS	98 96	101 108	110 108	110 106	92 94
	L.P. BLEEDER	9	9	9	9	10		PORT BOILER UPTAKE	6.5	5.5	6.4	6.5	6.5
TEMPERATURES	STEAM AT THROTTLE	740	730	700	705	730	MISCELLANEOUS	STBD. BOILER UPTAKE	6.5	5.0	5.2	6	5.0
	L.P. EXHAUST	118	117	116	117	115		ENGINE ROOM TEMPERATURE	100+	105	105	105	105
	CONDENSATE	117	115	114	114	110	TEMPERATURES	FIRE ROOM TEMPERATURE					
	CIRC. WATER IN	90	90	90	90	90		NOZZLES IN USE	16	16	16	16	16
	CIRC. WATER OUT	101	101	102	102	100	TEMPERATURES	NO. OF BURNERS IN USE	6	6	6	6	6
	L.O. TO COOLERS	129	128	126	126	126		BURNER TIP SIZE	53/10	53/70	53/70	53/70	53/70
	L.O. FROM COOLERS	112	110	110	110	110	TEMPERATURES	CO2 % PORT BOILER	13	12.5	12.5	12.5	12.5
	TEMPERATURE THRUST BEARING	118	118	118	118	118		CO2 % STBD. BOILER	13.5	13	14	14	13.0
	FORWARD H.P. ROTOR BEARING	137	137	136	135	135	TEMPERATURES	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		BOILER WATER		LUBE OIL	
1200 TO 1600	1	1200	440	740	9	126	117		62	825	825	240	METER AT NOON	76030	ON HAND AT START OF DAY	106	EVAPORATED OR RECEIVED	44
	2	1200	440	740	7	149	134		72	825	825	240	METER PREVIOUS NOON	40.170	ON HAND	108	CONSUMED	42
1600 TO 2000	1	1200	460	730	9	126	115		62	700	700	240	CONSUMED BY METER	35.860	ON HAND AT START OF DAY	10.264	ON HAND AT START OF DAY	
	2	1200	460	730	7	148	134		72	700	700	240	RECEIVED DURING DAY	—	RECEIVED		ON HAND	
2000 TO 2400	1	1200	440	730	9	125	115		62	700	700	240	EXPENDED DURING DAY	853	RECEIVED		CONSUMED	
	2	1200	440	730	7	148	134		72	700	700	240	REMAINING ON BOARD	9.411	ON HAND		CONSUMED	
2400 TO 0400	1	1200	440	730	9	124	115		62	725	725	240	ON HAND AT START OF DAY	1318				
	2	1200	440	730	7	148	134		72	700	700	240	EVAPORATED OR RECEIVED	189				
0400 TO 0800	1	1200	440	730	9	124	114		62	725	725	240	ON HAND	1133				
	2	1200	440	730	7	147	134		92	725	725	240	CONSUMED	374				
0800 TO 1200	1	1200	440	740	9	125	115		62	800	800	240	DOMESTIC WATER					
	2	1200	440	740	7	148	135		72	800	800	240	LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)					
												1 + 2 1/4 / 1-2/4 1 1/2 2 1/2 1 1/2 4 hrs. 1 1/2 4 hrs.						
												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 1/2	4	
												SUMMARY						
												RUNNING TIME		1500	PERCENT OF SLIP		10.9	
												DETENTION TIME		✓	BBL FUEL/MI			
												TOTAL REVOLUTIONS		131.680	WIND DIRECTION		130°-5'	
												AVERAGE R.P.M.		87.7	STATE OF SEA		130°-1'	
												TOTAL MILES BY ENGINE		491	STATE OF WEATHER		Clear	
												TOTAL MILES BY OBSERVATION		437	HAZ 87			

REMARKS

1200-1600 WATCH

UNDERWAY ON 16 NOZZLES - FOLLOWING MACHINERY IN OPERATION - B1+B2 - F1+F2 - L1 - M1
 G1+G2 - MC2 - D1+D2 - P1-P2 - FSI - MER - E1+E2 - LCI - A, COND - ACCP - ACCW - AER -
 1350 CH. ELECT. TESTED STEERING GEAR BREAKER ON MN PANEL - PUMPED BILGES & CLEANED BILGE
 SUCTION STRAINER - CHANGED OVER & CLEANED STD F.O. DISCH. STRAINER - OPENED COOLING WATER
 TO L.O. COOLER $\frac{1}{4}$ TURN - COMPLYING $\frac{1}{2}$ NIGHT & STANDING ORDERS - BLEW TUBES BOTH BOILERS/BIDGE
 PERMISSION - 1520 SEC. BLOWING TUBES

WATCH ENGR'S SIGNATURE-

Al Kober

1600-2000 WATCH

UNDERWAY ON 16 NOZ. PLANT OPER. AS BEFORE
 F.O. BURNERS & STRAINERS CLEANED, REGISTER DRAIN HOLES FREE
 BOILER & CONDSTE TESTS, MACHINERY SPACES & STEERING GEAR INSPECTED
 COMPLIED W/DEPT ORDERS: PUMPED BILGES: INSTRUCTED PERSONNEL AS PER NITE ORDERS
 WTD #1 SEC FROM BRIDGE @ 1935

WATCH ENGR'S SIGNATURE-

Cliffrey

2000-2400 WATCH

Machinery as Before, Except: changed & cleaned Lower Fuel oil Burner -
 changed & cleaned #2 Generator Lube oil Strainer - Set clock Back 20 minutes @
 2252 - Changed to Inboard Settle @ 2300 - Purged Eng. Space Bilges -
 Jv. Eng. Kelly Secured Shores in Comp. 2-7 Because of Seismic Lock -

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY ON 16 NOZZLES - MACHINERY AS BEFORE - COMPLYING $\frac{1}{2}$ NIGHT & STANDING ORDERS
 0100 RETARDED CLOCK 20 MIN - CHANGED OVER & CLEANED LUB. OIL STRAINER MN. TURBINE.
 CHANGED & CLEANED TOP F.O. BURNER B1+B2 - PUMPED BILGES ER -

WATCH ENGR'S SIGNATURE-

Al Kober

0400-0800 WATCH

UNDERWAY ON 16 NOZZLES: OPERATION AS BEFORE EXCEPT PORT UPTAKE TEMP 395°
 RETARDED CLOCK 20 MIN @ 0500: ROUTINE DUTIES CARRIED OUT, F.O. STRAINERS
 CLEANED, BOILER & CONDSTE TESTS: MACHINERY SPACES & STEERING GEAR INSP.
 E.R. BILGES PUMPED, ADDED 2 GAL L.O. TO #1 F.O. PUMP: INFORMED 2ND A/E
 AFT TO SHUT F.W. SUCT TO #3 & SEC #2 PLS B/O CA/ENGR: CH/E IN FWD ER.
 0705-0725: PORT UPTAKE TEMP 415 @ 0800

WATCH ENGR'S SIGNATURE-

Cliffrey

0800-1200 WATCH

Machinery as Before, Except: Blew Tubes #1 & 2 Boilers 0815-0830 -
 Chief Engineer & Vessel's Master Inspected Engineering Spaces @ 0835 -
 changed & cleaned Port Fuel oil Hot Strainers - Fireman/Platetender
 Jackson Reported to Sick Bay 0825; Returned to Duty @ 0910 - changed to Outboard
 Settle @ 1130 - Pumped Eng. Space Bilges -

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

2 BOILER 1

934 P. ALK 13.20
 1460 T. ALK 18.10
 497 CHLO 4.87
 40 PH. 4 40
 75 SO. 3 58
 10.5 PH 10.5
 3620 WS. HRS. 3384
 950 FS. HRS. 892

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	240	240	240	MACHINERY PARTICULARS (CONT'D)		AFT. H. P. ROTOR BEARING		137	135	135	135	135	135		
DETENTION TIME										FORWARD L. P. ROTOR BEARING		132	132	130	132	132	132	132	
REVOLUTION COUNTER (END OF WATCH)		0180 2470	01700 24700	0184 7170	0186 9580	01890 91890	0191 4370			AFT. L. P. ROTOR BEARING		132	131	130	133	132	130	130	
TOTAL REVOLUTIONS (FOR WATCH)		22330	22230	22470	22410	22310	22480			HOTTEST GEAR BEARING FORWARD		155	155	155	155	155	155	155	
AVERAGE RPM		93	92.6	93.6	93.3	93.0	93.6			HOTTEST GEAR BEARING AFT		155	147	149	155	147	149	149	
F.O. METER (END OF WATCH)		8376 350	39090	8381 800	8384 410	87150	8389 810			AUX. COND. CONDENSATE		116	118	118	118	118	118	116	
F.O. CONSUMED		2740	2740	2710	2610	2740	2660			1ST STAGE FEED WATER HEATER		162	160	162	163	162	164	164	
										D. C. FEED WATER HEATER		240	240	240	240	240	240	240	
								3RD STAGE FEED WATER HEATER		41	41/75	41	41	41/75	4	4			
MACHINERY PARTICULARS PRESSURES		THROTTLE	445	445	445	445	455	445	BOILER PARTICULARS TEMPERATURES		F.O. TO BURNERS		190	190	190	190	185	185	
		H.P. AHEAD	436	425	425	425	430	425			D/B BACK PRESSURE TEST		41	0.41	.41	.41	0.41	.4	
		L.P. AHEAD	23	23	23	23	23.5	23			AIR TO FURNACE		154	152	154	150	149	150	
		VACUUM	28.5	27.4	27.5	28.5	27.5	27.5			UPTAKE		P 365 S 290	340 290	315 295	325 305	345 300	335 290	
		L.O. TO TURBINES	13.5	13.5	13.5	13.5	13.5	13.5			MAIN STEAM		750	740	740	750	730	740	
		AUX. STEAM	150	150	150	150	150	150			SUPER HEAT		460	460	460	460	460	460	
		BACK PRESSURE	9	9	9	9	9	9			F.O. TO BURNERS		215	205	205	205	210	210	
		GLAND STEAM	1.5	0.5	1.5	2	0.5	1.5			F.O. TEMP. IN SETTLING TANKS		P 104 S 106	112 114	114 108	120 110	120 112	96 96	
		H.P. BLEEDER									PORT BOILER UPTAKE		6.5	5.5	5.8	5.8	6.0	6	
		L.P. BLEEDER	7	7	7	7	7	7			STBD. BOILER UPTAKE		5	4.5	4.8	4.8	4.0	4	
MACHINERY PARTICULARS TEMPERATURES		STEAM AT THROTTLE	425	720	720	715	700	715	MISCELLANEOUS		ENGINE ROOM TEMPERATURE		105	108	110	110	110	110	
		L.P. EXHAUST	117	117	115	116	114	115			FIRE ROOM TEMPERATURE		104		110 113				110 113
		CONDENSATE	113	114	114	114	109	112			NOZZLES IN USE		16	16	16	16	16	16	16
		CIRC. WATER IN	90	90	90	90	90	90			NO. OF BURNERS IN USE		6	6	6	6	6	6	6
		CIRC. WATER OUT	101	101	100	101	98	100			BURNER TIP SIZE		53/70	53/70	53/70	53/70	53/70	53/70	53/70
		L.O. TO COOLERS	125	126	126	126	126	126			CO2 % PORT BOILER		13	13	13	13.5	12.5	12.5	12.5
		L.O. FROM COOLERS	110	110	110	110	110	110			CO2 % STBD. BOILER		13.5	14	13.5	13.5	13.5	13	13
		TEMPERATURE THRUST BEARING	118	118	118	118	118	118			OIL LEVEL MAIN SUMP		N	N	N	N	N	N	N
		FORWARD H.P. ROTOR BEARING	135	135	135	135	135	135											

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	METER AT NOON	METER PREVIOUS NOON	CONSUMED BY METER	ON HAND AT START OF DAY	EVAPORATED OR RECEIVED	ON HAND
1200 TO 1600	1	1200	440	750	9	126	116		62	750	750	240			108	37	106
1600 TO 2000	2	1200	440	750	7	149	134		70	800	800	240					
2000 TO 2400	1	1200	440	740	9	125	115		62	750	750	240					
2400 TO 0400	2	1200	440	740	7	148	134		70	750	750	240					
0400 TO 0800	1	1200	440	740	9	125	115		62	700	700	240					
0800 TO 1200	2	1200	440	740	7	148	134		70	700	700	240					
FUEL OIL												DOMESTIC WATER					
												LUBE OIL					
												SUMMARY					
												RUNNING TIME					
												DETENTION TIME					
												TOTAL REVOLUTIONS					
												AVERAGE R.P.M.					
												TOTAL MILES BY ENGINE					
												TOTAL MILES BY OBSERVATION					
												WIND DIRECTION					
												STATE OF SEA					
												STATE OF WEATHER					
												A-2 87°					

REMARKS

1200-1600 WATCH

UNDERWAY ON SIXTEEN NOZZLES - FOLLOWING MACHINERY IN OPERATION - B1+B2 - F1+F2 - L1 - M1 - G1+G2 - MC2 - D1+D2 - P1+P2 - FSI - MER - E1+E2 - LCI - A. COND - ACCP - ACCW - AER - CH/ENG. IN ER 1330
 CHANGED OVER + CLEANED M.V. TURB. L.O. STRAINER - CHANGED OVER + CLEANED STD F.O. DISCH. STRAINER - PUMPED BILGES - ADDED 2 GAL. LUB. OIL NOZ FEED PUMP - 1515 BLEW TUBES B1+B2
 W/BRIDGE PERMISSION - 1540 SECURED BLOWING TUBES

F.O. 17.5
 F.W. 4.2
 MUF 17.5
 MU-U 4.2
 EVAP 14.2
 GAL-D 11800

WATCH ENGR'S SIGNATURE-

Al Kober

1600-2000 WATCH

UNDERWAY ON 16 NOZ VAC 27.4 @ 1600; OPER. AS BEFORE;
 F.O. BURNERS + STRAINERS CLEANED, BOILER COND. TESTS, MACHINERY SPACES
 AND STEERING GEAR INSPECTED, BILGES PUMPED, W.T.D #1 SECURED
 FROM BRIDGE @ 1805; COMPLIED W/DEPT ORDERS

P. OUTBD. F.O. 7
 #3 CL F.W. 1074
 #1 PORT MUF 16
 MU-U 5
 DIST 3 P/S EVAP 14.2
 GAL-D 11200

WATCH ENGR'S SIGNATURE-

CW Frey

2000-2400 WATCH

Machinery as Before. Except: changed & cleaned Lower Fuel oil
 Burners - changed & cleaned #1 Generator Lube oil Strainers -
 Blew Tubes #2 Boiler With Bridge Permission - @ 2245 - 2255 - Stack Temp.
 395°F - Changed to Inboard Settler @ 2230 - Pumped Eng. Spaces Bilges -

F.O. 15.3
 F.W. 1124
 MUF 15.3
 MU-U 6.4
 EVAP 14.2
 GAL-D 11400

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY ON 16 NOZZLES - MACHINERY AS BEFORE - COMPLYING W/NIGHT + STANDING ORDERS
 CHANGED + CLEANED TOP F.O. BURNERS IN BOTH BOILERS - PUMPED BILGES - 0245 ONE OF COOK'S
 CAME DOWN + REPORTED FIRE IN TROOPS GALLEY - NOTIFIED BRIDGE + 1ST ASSIST IMMEDIATELY
 Stabby @ 0247 - 4H 0252 -

F.O. 10661
 F.W. 1124
 MUF 18.3
 MU-U 3.4
 EVAP 14.2
 GAL-D 11200

WATCH ENGR'S SIGNATURE-

Al Kober

0400-0800 WATCH

UNDERWAY ON 16 NOZ.; OPER. AS BEFORE; F.O. STRAINERS CLEANED, BURNER
 REGISTER DR. HOLES FREE, BOILER COND. TESTS, MACH'Y. SPACES + STEERING GEAR
 INSPECTED; BILGES PUMPED; CH/ENGR IN ER 0650 - 0710;

S. INBD. F.O. 1158
 3 CL F.W. 1158
 #1 PORT MUF 17
 MU-U 4
 DIST EVAP 14.2
 GAL-D 11500

WATCH ENGR'S SIGNATURE-

CW Frey

0800-1200 WATCH

Machinery as Before, Except; Blew Tubes #1 & #2 Boilers 0800-0815 -
 Transferred Fuel Oil from 5th & 9th Into Outboard & Inboard Settlers - changed & cleaned
 Port Fuel oil Hot Strainers - changed to Outboard Settler @ 1130 - Pumped
 Eng. Spaces Bilges -

F.O. OUTBD.
 F.W. 1158
 MUF 15.3
 MU-U 6.4
 EVAP 14.2
 GAL-D 11300

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

2 BOILER 1

1051 P. ALK 1168
 1518 T. ALK 1518
 4.97 CHLO 4.97
 40 PH. 4 35
 30 SO. 3 70
 10.5 PH 10.5
 3644 WS. HRS. 13408
 974 FS. HRS. 892

CHIEF ENGR'S SIGNATURE-

J. A. O'Halloran

USNS GEN. JOHN POPE	VOYAGE NO. 3A	FROM OAKLAND NSC	TO VIETNAM	TYPE OF VESSEL T-2	DATE 21-22 JUNE '66
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		WATCH					
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME		240	240	240	240	240	240
DETENTION TIME							
REVOLUTION COUNTER (END OF WATCH)		6193 6770	59190	6198 1620	6200 3990	26210	8204 8860
TOTAL REVOLUTIONS (FOR WATCH)		22400	22490	44850*	22370	22270	22650
AVERAGE RPM		93.3	93.4	93.4	93.	92.6	94.3
F.O. METER (END OF WATCH)		8392 480	98000	8397 900	8400 550	03180	8405 900
F.O. CONSUMED		2670	2720	2700	2650	2630	2720
MACHINERY PARTICULARS							
THROTTLE		440	440	440	440	445	440
H.P. AHEAD		420	420	420	420	425	420
L.P. AHEAD		22.5	24	24	23	23	23
VACUUM		28.5	27.5	27.5	27.5	27.5	27.5"
L.O. TO TURBINES		13.5	13.5	13.5	13.5	13.5	13.5
AUX. STEAM		150	150	150	150	150	150
BACK PRESSURE		9	9	9	9	9	9
GLAND STEAM		2.	0.5	1.5	1.5	0.5	1.5
H.P. BLEEDER							
I.P. BLEEDER		7	7	7	7	7	7
L.P. BLEEDER		9	10	9	9	10	9
STEAM AT THROTTLE		725	730	715	725	705	715
L.P. EXHAUST		117	118	118	118	116	118
CONDENSATE		114	116	114	116	115	117
CIRC. WATER IN		90	90	90	90	90	90
CIRC. WATER OUT		100	101	102	102	100	102
L.O. TO COOLERS		125	126	126	126	126	126
L.O. FROM COOLERS		110	110	110	110	110	110
TEMPERATURE THRUST BEARING		118	118	118	118	118	118
FORWARD H.P. ROTOR BEARING		135	135	135	135	135	136
MISCELLANEOUS							
AFT. H. P. ROTOR BEARING		137	137	137	137	137	137
FORWARD L. P. ROTOR BEARING		133	132	133	133	132	132
AFT. L.P. ROTOR BEARING		131	131	130	131	130	130
HOTTEST GEAR BEARING FORWARD		155	155	155	155	153	155
HOTTEST GEAR BEARING AFT		150	147	150	147	147	149
AUX. COND. CONDENSATE		118	118	118	116	118	118
1ST STAGE FEED WATER HEATER		162	160	162	162	160	164
D. C. FEED WATER HEATER		240	240	240	240	240	240
3RD STAGE FEED WATER HEATER		.41	.41/7	.4	.41	.41/7	.4
F.O. TO BURNERS		190	185	185	190	185	185
DOX BACK PRESSURE TEST		.41	.41	.4	.41	.4	.4
AIR TO FURNACE		152	151	152	150	149	152
UPTAKE		335 290	315 300	335 300	340 305	360 310	295 295
MAIN STEAM		750	745	745	750	735	745
SUPER HEAT		460	460	460	460	460	460
F.O. TO BURNERS		200	190	200	200	200	200
F.O. TEMP. IN SETTLING TANKS		98 104	114 112	120 108	116 110	110 108	98 108
PORT BOILER UPTAKE		6.5	5.4	6.8	6.8	6.5	6.
STBD. BOILER UPTAKE		5	5.0	5.4	5.0	4.5	5.
ENGINE ROOM TEMPERATURE		110	110	110	110	110	110
FIRE ROOM TEMPERATURE		No. 4		INBD.			OUTBD.
NOZZLES IN USE		16	16	16	16	16	16
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	13.5	13.5	13.5	13.5	13.5
CO ₂ % STBD. BOILER		13	140	14	14	13	13
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		LOW PRESS. EVAPORATORS		(No. of hrs operated) (Fresh water made gals.)		L.O. CENTRIFUGE - HOURS OPERATED						SUMMARY					
1200 TO 1600	1	1200	440	750	9	125	115		62	750	750	240	METER AT NOON	43.020	BOILER WATER	ON HAND AT START OF DAY	106	LUBE OIL	EVAPORATED OR RECEIVED	41	ON HAND	123	ON HAND AT START OF DAY		RECEIVED		ON HAND		CONSUMED			
	2	1200	440	750	7	148	134		72	750	750	240	METER PREVIOUS NOON	09.730		CONSUMED BY METER	33.290		ON HAND AT START OF DAY	8609		EXPENDED DURING DAY		792		REMAINING ON BOARD		7817		ON HAND AT START OF DAY	1153	EVAPORATED OR RECEIVED
1600 TO 2000	1	1200	440	745	9	125	115		62	750	750	240																				
	2	1200	440	745	7	148	134		72	750	750	240																				
2000 TO 2400	1	1200	440	745	9	125	115		62	750	750	240																				
	2	1200	440	745	7	148	134		72	750	750	240																				
2400 TO 0400	1	1200	440	750	9	125	115		62	600	800	240																				
	2	1200	440	750	7	148	134		72	800	800	240																				
0400 TO 0800	1	1200	445	730	9	125	115		62	750	750	240																				
	2	1200	445	730	7	147	134		72	750	750	240																				
0800 TO 1200	1	1200	440	745	9	125	115		62	750	750	240																				
	2	1200	440	745	7	148	134		72	750	750	240																				

REMARKS

1200-1600 WATCH

UNDERWAY ON 16 NOZZLES - FOLLOWING MACHINERY IN OPERATION - B1+B2-F1+F2
 L1-M1-G1+G2-MC2-D1+D2-P1+P2-FS1-MER-E1+E2-LC1-A COND-ACCP-ACCW-AER
 CH/ENR. IN ER 1400 - CHANGED OVER & CLEANED MN. TURB. L.O. STRAINER - CHANGED OVER & CLEANED
 STD F.O. DISCH. STRAINER - FILLED GREASE CUPS ACCW. - PUMPED BILGES - 1515 BLEW TUBES B1+B2 BRIDGE
 PERMISSION - 1540 SEC. BLOWING TUBES

WATCH ENGR'S SIGNATURE-

Al Kober

1600-2000 WATCH

UNDERWAY ON 16 NOZZLES: OPERATIONS AS BEFORE, CLEANED F.O. BURNERS AND
 STRAINERS, REGISTER DRAIN HOLES FREE, MACHINERY SPACES INSPECTED
 STEERING GEAR CHECKED: E.R. BILGES PUMPED: COMPLIED W/DEPT. ORDERS;
 TRANS F.O. FROM #9 & 5S TO PORT OUTBOARD SETT.: W.T.O #1 SEC. FROM BRIDGE 1830

P. OUTBD F.O. P. OUTBD
 F.W. 34
 MUF #1 PORT
 MU-U 7
 EVAP 34
 GAL-D 9400

WATCH ENGR'S SIGNATURE-

Cliffrey

2000-2400 WATCH

Machinery as Before, Except: - Changed & cleaned Lower Fuel oil Burners -
 Changed & cleaned #2 Generator Lube oil Strainers - changed to Inboard
 Settler @ 2330 - Pumped frg. space Bilges -

F.O. INBD.
 F.W. 34
 MUF 1 STD.
 MU-U 5.7
 EVAP 34
 GAL-D 10,900

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY ON 16 NOZZLES - MACHINERY AS BEFORE - COMPLYING W/NIGHT & STANDING
 ORDERS - CHANGED & CLEANED TOP F.O. BURNERS BOTH BOILERS - PUMPED BILGES
 W.F. JENKINS CH ELECT TURNED IN WEEKLY CHECK OFF LIST

F.O. 6366L.
 F.W.
 MUF 17.5
 MU-U 4.2
 EVAP 142
 GAL 11,100 GAL

WATCH ENGR'S SIGNATURE-

Cliffrey Al Kober

0400-0800 WATCH

UNDERWAY ON 16 NOZZLES: OPERATION AS BEFORE: F.O. STRAINERS CLEANED,
 BURNER REGISTER DRAIN HOLES FREE, BOILER CONDSTE. TESTS, MACHINERY SPACES
 and STEERING GEAR INSPECTED, E.R. BILGES PUMPED. NO VENTIL. MN GALLEY, BROKE OUT
 CH/ELECT @ 0615, REEFER HARDY ALSO CHECKED ON SAME;

F.O. P-INBD
 F.W. 34
 MUF #1 PORT
 MU-U 6
 EVAP 34
 GAL-D 11,200

WATCH ENGR'S SIGNATURE-

Cliffrey

0800-1200 WATCH

Machinery as Before, Except: - Blew Tubes #1 & 2 Boilers 0800-0815 -
 Transferred 118 PWS. Fuel oil From 5th to Outboard Settler - changed & cleaned
 Port Fuel oil Hot Strainers - Fire Drill S.B.E. @ 1018 Secured @ 1031 - Boat Drill
 @ 1031 Secured & HT @ 1041 - Shiper Benick, 389-6 @ 1100 Reported to Watch Engr.
 that the fuel tank that he had slipped & fuel was leaking between aft. frg. R.N. & Shift alley; He was sent
 to the Sick Bay - changed to Outboard Settler @ 1130 - Pumped frg. space Bilges

F.O. OUTBD.
 F.W. 34
 MUF 1P-14.2
 MU-U 7.5
 EVAP 34
 GAL-D 10,500

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

F.O. TRANSFERRED, 15566L. From No 9 & 10.5 P/S To PORT INBOARD SETT. (NO 3)

2 BOILER 1

993 P. ALK 10.51
 1402 T. ALK 14.60
 497 CHLO 4.97
 30 PH. 4 30
 60 SO. 3 64
 10.5 PH 10.5
 3668 WS. HRS. 3432
 998 FS. HRS. 916

CHIEF ENGR'S SIGNATURE-

for O'Halloran

USNS		VOYAGE NO.		FROM		TO		TYPE OF VESSEL		DATE			
GEN. JOHN POPE		3A		OAKLAND NSC		VIETNAM		P-2		WED THU. 22-23 JUNE 66			
WATCH													
1200 TO 16001600 TO 20002000 TO 24002400 TO 04000400 TO 08000800 TO 1200													
RUNNING TIME240240260260260240													
DETENTION TIME													
REVOLUTION COUNTER (END OF WATCH)020708909326002117380021415506566002187920													
TOTAL REVOLUTIONS (FOR WATCH)220302237024120241702411022260													
AVERAGE RPM91.793.292.792.992.792.7													
F.O. METER (END OF WATCH)84085701123084141508417070199908422710													
F.O. CONSUMED267026602920292029202720													
MACHINERY PARTICULARS (CONT'D)													
THROTTLE440440440440440440													
H.P. AHEAD430420420420420420													
L.P. AHEAD232423232223													
VACUUM28.527.427.527.527.527.5													
L.O. TO TURBINES13.513.513.513.513.513.5													
AUX. STEAM150150150150150150													
BACK PRESSURE999999													
GLAND STEAM21.01.51.00.51.5													
H.P. BLEEDER													
I.P. BLEEDER777777													
L.P. BLEEDER91099109													
STEAM AT THROTTLE710710715720710710													
L.P. EXHAUST118118118118116118													
CONDENSATE114116117118114116													
CIRC. WATER IN909090909090													
CIRC. WATER OUT102102102102100102													
L.O. TO COOLERS126126126126126126													
L.O. FROM COOLERS110110110110100110													
TEMPERATURE THRUST BEARING118118118118118118													
FORWARD H.P. ROTOR BEARING135135136136135135													
MISCELLANEOUS													
AFT. H. P. ROTOR BEARING137137137137137136													
FORWARD L. P. ROTOR BEARING133133133133132132													
AFT. L. P. ROTOR BEARING132132131132132131													
HOTTEST GEAR BEARING FORWARD155155155155155155													
HOTTEST GEAR BEARING AFT150148148148147147													
AUX. COND. CONDENSATE118118118118118118													
1ST STAGE FEED WATER HEATER162161164162160164													
D. C. FEED WATER HEATER240240240240240240													
3RD STAGE FEED WATER HEATER.41.417.4.41.418.4													
F.O. TO BURNERS185185185185185185													
D.W. PRESSURE.410.41.4.40.41.4													
AIR TO FURNACE152152153152150151													
UPTAKE300300300300295295													
MAIN STEAM730740740750740740													
SUPER HEAT460460460460460460													
F.O. TO BURNERS195200200200210210													
F.O. TEMP. IN SETTLING TANKS110110110114112106													
PORT BOILER UPTAKE66.57.59.76.4													
STBD. BOILER UPTAKE55.55.55.55.4.4													
ENGINE ROOM TEMPERATURE110110110110110110													
FIRE ROOM TEMPERATURE													
NOZZLES IN USE161616161616													
NO. OF BURNERS IN USE666666													
BURNER TIP SIZE53/9053/9053/9053/9053/9053/90													
CO2 % PORT BOILER13.512.51313.512.512.5													
CO2 % STBD. BOILER131413.513.513.013.5													
OIL LEVEL MAIN SUMPNNNNNN													
GENERATORS													
WATCHGENERATOR NUMBERR.P.M.STEAM PRESSURESTEAM TEMP.L.O. PRESSUREL.O. TO COOLERL.O. FROM COOLERTEMP. OF HOTTEST BEARINGL.O. GOVERNOR PRESSUREAMPS POSITIVEAMPS NEGATIVEVOLTS													
1200 TO 160011200440730912711762750750240													
21200440730714913472750750240													
1600 TO 20001120044740912611662750750240													
2120044740714813472750750240													
2000 TO 240011200440740912611662750750240													
21200440740715013472750750240													
2400 TO 040011200440750912611662750750240													
21200440750714913472700700240													
0400 TO 080011200440740912511562750750240													
21200440740714813472750750240													
0800 TO 120011200440740912611662750750240													
21200440740714813472750750240													
FUEL - WATER AND LUBE OIL													
METER AT NOON76.770ON HAND AT START OF DAY123													
METER PREVIOUS NOON43.020EVAPORATED OR RECEIVED42													
CONSUMED BY METER33.750ON HAND123													
ON HAND AT START OF DAY7817CONSUMED42													
RECEIVED DURING DAY—ON HAND AT START OF DAY													
EXPENDED DURING DAY803RECEIVED													
REMAINING ON BOARD7014ON HAND													
ON HAND AT START OF DAY1163CONSUMED													
EVAPORATED OR RECEIVED169													
ON HAND1152													
CONSUMED180													
LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)													
Net 1/4 #1-14 #1-2 #1-2 #1-2 #1-2 #1-2													
4 HRS 2-233 4 HRS 1-2 4 HRS 1-2 4 HRS 1-2 4 HRS 1-2													
L.O. CENTRIFUGE - HOURS OPERATED													
1200 TO 16001600 TO 20002000 TO 24002400 TO 04000400 TO 08000800 TO 1200													
444 1/3 4 1/3 4 1/3 4													
SUMMARY													
RUNNING TIME1500PERCENT OF SLIP71.17													
DETENTION TIME✓BBL FUEL/MI													
TOTAL REVOLUTIONS134300WIND DIRECTION180°-10 kt													
AVERAGE R.P.M.89.5STATE OF SEA180°-2 ft													
TOTAL MILES BY ENGINE501STATE OF WEATHERClear													
TOTAL MILES BY OBSERVATION445A=86													

REMARKS

1200-1600 WATCH

UNDERWAY ON 16 NOZZLES - FOLLOWING MACHINERY IN OPERATIONS - B1+B2 - F1+F2 - L1-M1
 G1+G2 - MC2 - D1+D2 - D1+P2 - FSI - MER - E1 - LCI - A. COND. ACCP - ACCW - AER. CH/ENGR IN
 ER @ 1430 - COMPLYING W/ NIGHT + STAND. ORDERS - CHANGED OVER + CLEANED MN. TURB. L.O. STRAINER
 STENCILING LINES + TANKS - CHANGED OVER + CLEANED STEEL F.O. DISCH. STRAINER - PUMPED BILGES -
 1515 BLOWING TUBES BOTH BOILERS/BADGE PERMISSION - 1535 SEC. BLOWING TUBES

F.O. No. 4
 F.W. No. 3 P/S
 MUF DB
 MU-U 5.7
 EVAP No. 1
 GAL-D 5600

WATCH ENGR'S SIGNATURE-

Al Kober

1600-2000 WATCH

UNDERWAY ON 16 NOZZLES: PLANT OPERATION AS BEFORE: SECURED TRAN F.O. 1610:
 F.O. STRAINER & BURNERS CLEANED, BOILER CONDSTE TESTS. MACHINERY SPACES
 & STEERING GEAR INSPECTED, E.R. BILGES PUMPED: COMMENCED STENCILING LINES
 ADDED 1 GAL L.O. TO #2 MN F.O. PUMP:

F.O. P-007AD
 F.W. 3 P/S
 MUF #1 PORT
 MU-U 8.
 EVAP 34
 GAL-D 6300

WATCH ENGR'S SIGNATURE-

CW Frey

2000-2400 WATCH

Machinery as Before, Except: - changed & cleaned Lower Fuel oil Burners -
 changed & cleaned #1 Generator Lube oil Strainers - Set clock Back 20 minutes
 @ 1047 - changed to Inboard Settler @ 2325 - Pumped Eng. Space Bilges -

F.O. INBD.
 F.W. 3P
 MUF #1 PORT
 MU-U 7.1
 EVAP 32-123
 GAL-D 11400

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY ON 16 NOZZLES - MACHINERY AS BEFORE - APPR 1220 CO₂ HAND
 FIRE EXTINGUISHER FES-115-2 FUSIBLE PLUG FAILED RELEASING CHARGE CO₂ - COMPLYING W/ NIGHT
 & STANDING ORDERS - 0100 RETARDED CLOCK 20 MIN - CHANGED & CLEANED TOP F.O. BURNERS
 IN BOTH BOILERS - PUMPED BILGES - ADDED 2 GAL L.O. NO. 2 MN FEED PUMP

F.O. No. 35 SETT
 F.W.
 MUF No. 1 PORT
 MU-U 4.2
 EVAP
 GAL-D 11,800

WATCH ENGR'S SIGNATURE-

Al Kober

0400-0800 WATCH

UNDERWAY ON 16 NOZZLES: OPERATION AS BEFORE: RETARDED CLOCK 20 MIN
 @ 0500: F.O. STRAINERS CLEANED, BURNER REGISTER DRAIN HOLES FREE:
 L.O. STRAINERS CHECKED & CLEAN (MN. UNIT). CH/ENGR IN E.R. 0640 - 0650:
 COMPLIED W/ DEPT ORDERS: BOILER CONDSTE TESTS MACHINERY SPACES
 AND STEERING GEAR INSPECTED:

F.O. S-INBD.
 F.W. 3 P/S
 MUF 1-PORT
 MU-U 5.
 EVAP 34
 GAL-D 11,700

WATCH ENGR'S SIGNATURE-

CW Frey

0800-1200 WATCH

Machinery as Before, Except: - Blew inber #1 & 2 Boilers 0800 - 0815 -
 Trans. Fuel oil from 5th into But outboard & Port Inboard Settles - changed & cleaned
 Port fuel oil Hot Strainers - changed to Outboard Settler @ 1130 - Pumped
 Eng. Space Bilges -

F.O. OUTBD.
 F.W. 3 P/S
 MUF DB. 1P
 MU-U 7.5
 EVAP 142
 GAL-D 10600

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

G. KRUPP TRANSFERRED F.O. No 5 P + No 5 L TO No 3 + 4 SETT.
 CO₂ FIRE EXTINGUISHER FES-115-2 FUSIBLE PLUG FAILED. LOCATION FWD ER BULK HEAD PORT SIDE

2 BOILER 1

1051 P. ALK 10.51
 1518 T. ALK 1518
 1497 CHLO 6.31
 45 PH. 4 45
 65 SO. 3 65
 10.5 PH 10.5
 3692 WS. HRS. 3454
 1032 FS. HRS. 740

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	240	240	240	MACHINERY PARTICULARS (CONT'D)	TEMPERATURES (CONT'D)	AFT. H. P. ROTOR BEARING	135	135	135	135	135
DETENTION TIME										FORWARD L. P. ROTOR BEARING	132	130	132	131	130
REVOLUTION COUNTER (END OF WATCH)		0221 0040	3220	0223 4570	0227 6670	98580	0232 0920			AFT. L. P. ROTOR BEARING	130	130	131	132	130
TOTAL REVOLUTIONS (FOR WATCH)		22120	22180	22350	22100	21910	22340			HOTTEST GEAR BEARING FORWARD	155	155	153	155	155
AVERAGE RPM		92.2	92.4	93.1	90.1	91.3	93.	MACHINERY PARTICULARS (CONT'D)	TEMPERATURES (CONT'D)	HOTTEST GEAR BEARING AFT	150	147	147	147	147
F.O. METER (END OF WATCH)		8425 410	2800	8430 730	8433 380	36090	8438 790			AUX. COND. CONDENSATE	118	118	118	118	116
F.O. CONSUMED		2700	2610	2710	2650	2710	2700			1ST STAGE FEED WATER HEATER	161	160	164	164	164
										D. C. FEED WATER HEATER	240	240	240	240	240
MACHINERY PARTICULARS	THROTTLE	440	450	440	440	445	440	BOILER PARTICULARS	TEMPERATURES	2ND STAGE FEED WATER HEATER	240	240	240	240	240
	H.P. AHEAD	420	430	420	420	425	420			BACK PRESSURE TEST	.41	.41	.4	.41	.4
	L.P. AHEAD	23	24	23.5	23	22.5	23			F.O. TO BURNERS	185	185	185	185	185
	VACUUM	27.5	27.5	27.5	27.5	27.5	27.5			BACK PRESSURE TEST	.41	.41	.4	.4	.41
	L.O. TO TURBINES	13.5	13.5	13.5	13.5	13.5	13.5			AIR TO FURNACE	150	151	154	152	152
	AUX. STEAM	150	150	150	150	150	150			UPTAKE	330 300	305 295	335 300	345 310	335 315
	BACK PRESSURE	9	9	9	9	9	9			MAIN STEAM	740	725	735	750	750
	GLAND STEAM	2	0.5	2	1.5	0.5	2			SUPER HEAT	460	460	460	460	460
	H.P. BLEEDER									F.O. TO BURNERS	190	200	200	195	190
	I.P. BLEEDER	7	7	7	7	7	7			F.O. TEMP. IN SETTLING TANKS	110 160	110 102	114 104	114 104	112 98
	L.P. BLEEDER	9	10	9	9	9	9			PORT BOILER UPTAKE	6	5.5	6.4	7	6.5
	STEAM AT THROTTLE	710	695	710	720	715	720			STBD. BOILER UPTAKE	5	4	5	5	5
TEMPERATURES	L.P. EXHAUST	116	117	117	117	116	116	MISCELLANEOUS	TEMPERATURES	ENGINE ROOM TEMPERATURE	110	110	110	110	110
	CONDENSATE	116	114	116	116	114	116			FIRE ROOM TEMPERATURE					
	CIRC. WATER IN	90	90	90	90	90	90			NOZZLES IN USE	16	16	16	16	16
	CIRC. WATER OUT	100	100	102	101	101	100			NO. OF BURNERS IN USE	6	6	6	6	6
	L.O. TO COOLERS	124	126	126	126	126	124			BURNER TIP SIZE	53/70	53/70	53/70	53/70	53/70
	L.O. FROM COOLERS	110	110	110	110	110	110			CO ₂ % PORT BOILER	13.5	13.	12.5	12.5	13
	TEMPERATURE THRUST BEARING	118	110	118	118	118	120			CO ₂ % STBD. BOILER	13	13.5	13.5	13.5	13.5
	FORWARD H.P. ROTOR BEARING	135	135	135	135	135	135			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	FUEL OIL	WATER	WATER	LUBE OIL	LUBE OIL
1200 TO 1600	1	1200	440	730	9	126	116		62	850	850	240	METER AT NOON	108.630	BOILER WATER	ON HAND AT START OF DAY	123	
													METER PREVIOUS NOON	76.770		EVAPORATED OR RECEIVED	-	
	2	1200	460	730	7	148	148		72	850	850	240	CONSUMED BY METER	31.860	LUBE OIL	ON HAND	90	
													ON HAND AT START OF DAY	7014		CONSUMED	33	
1600 TO 2000	1	1200	450	725	9	126	116		62	750	750	240	RECEIVED DURING DAY	-		ON HAND AT START OF DAY		
													EXPENDED DURING DAY	758		RECEIVED		
	2	1200	450	725	7	148	134		72	750	750	240	REMAINING ON BOARD	6256		ON HAND		
													ON HAND AT START OF DAY	1152		CONSUMED		
2000 TO 2400	1	1200	440	735	9	126	116		62	750	750	240	EVAPORATED OR RECEIVED	234				
													ON HAND	1218				
	2	1200	440	735	7	148	134		72	750	750	240	CONSUMED	168				
LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)													L.O. CENTRIFUGE - HOURS OPERATED					
12/4 142 hrs. 142 hrs. 12/4 142 hrs.													1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
													4	4	4 hrs	4	4	
SUMMARY																		
RUNNING TIME													1440	PERCENT OF SLIP		14.49		
DETENTION TIME													✓	BBL FUEL/MI		1.56-1.83		
TOTAL REVOLUTIONS													130,000	WIND DIRECTION		060°-18 kt		
AVERAGE R.P.M.													90.2	STATE OF SEA		060°-2 ft		
TOTAL MILES BY ENGINE													483	STATE OF WEATHER		Clear		
TOTAL MILES BY OBSERVATION													414	2284				

REMARKS

1200-1600 WATCH

UNDERWAY ON 16 NOZZIES-FOLLOWING MACHINERY IN OPERATION - B1+B2 - F1+F2 - L1
 M1-G1+G2 - MC2 - D1+D2 - P1+P2 - FSI - MER - E1+E2 - LCI - A COND. - ACCP - ACW - AER -
 CH/ ENGR. IN ER 1400 - CHANGED OVER + CLEANED MN. TURB. L.O. STRAINER - CONT'D STENCILING -
 CHANGED OVER + CLEANED ST62 F.O. DISCH. STRAINER - PUMPED BILGES
 CHANGED POT. W. SUCTION TO No 3 & - 1515 BLEW TUBES BOTH BOILERS / BRIDGE PERMISSION - 1520 SEC
 BLOWING TUBES

WATCH ENGR'S SIGNATURE-

AL Kaker

1600-2000 WATCH

UNDERWAY ON 16 NOZ. OPER. AS BEFORE, F.O. BURNERS & STRAINERS
 CLEANED, L.O. STRAINER CLEAN, BURNER REGISTER DRAIN HOLES FREE,
 BOILER & CONDSTE TESTS, MACHINERY SPACES INSPECTED AND STEERING
 GEAR CHECKED: E.R. BILGES PUMPED, COMPLIED W/DEPT. ORDERS:

WATCH ENGR'S SIGNATURE-

CW Frey

2000-2400 WATCH

Machinery as Before, Except: Watertite Doors Closed from Bridge @ 2000 - Changed
 & cleaned Lower Fuel oil Burners - changed & cleaned #2 Generator Lube oil Strainers -
 Changed to Inboard Settles @ 2330 - Pumped Eng. Space Bilges -

WATCH ENGR'S SIGNATURE-

M. Fox

2400-0400 WATCH

UNDERWAY ON 16 NOZZLES - MACHINERY AS BEFORE - COMPLYING W/ NIGHT &
 STANDING ORDERS - CHANGED & CLEANED TOP F.O. BURNERS P/S BOILERS -
 PUMPED ER BILGES - SHIFTED PW SUCT TO No 3 P/S @ 0305 -

WATCH ENGR'S SIGNATURE-

AL Kaker

0400-0800 WATCH

UNDERWAY ON 16 NOZ., OPER. AS BEFORE, F.O. & L.O. STRAINERS CLEAN,
 BURNER REGISTER DRAIN HOLES FREE, BOILER & CONDSTE TESTS.
 BILGES PUMPED, MACHINERY SPACES INSPECTED, STEERING GEAR CHA'D.
 REDUCE SPEED TO 14 NOZ @ 0800: B/O BRIDGE: NO COMMUNICATION
 VIA 3 TELEPHONES FROM FWD TO AFT ER.:

WATCH ENGR'S SIGNATURE-

CW Frey

0800-1200 WATCH

Machinery as Before, Except; Blew Tubes #1 & 2 Boilers 0800-0815 -
 Watertite Doors closed & Cruising condition set by Bridge @ 0825 - Let off
 aux. air Ejectors & Split main & aux @ 0900 - transferred fuel oil from 6 P/S to
 Port outboard & Port inboard Settles - changed & cleaned Port Fuel oil Hot Strainers - Bridge
 called down @ 0750: ordered 16 Nozzles - changed to Outboard Settles @ 1130 - Pumped Eng.
 Space & #1 P/S Hold Bilges - Electricians Reported Telephone Working O.K.

WATCH ENGR'S SIGNATURE-

M. Fox

CHIEF ENGINEER

G. KRUPP TRANS F.O FROM No 6 P/S TO Nos 3 & 4 SETT TANKS. 0812

NO COMMUNICATION FROM FWD TO AFT ER. VIA TELEPHONES CIRCUIT "J"
 CIRCUIT "2JX" & "3JX"

2 BOILER

1051 P. ALK 11.68
 1518 T. ALK 1635
 6.21 CHLO 5.80
 50 PH. 4 30
 65 SO. 3 65
 10.5 PH 10.5
 3716 WS. HRS. 3478
 1046 FS. HRS. 968

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	144						MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING					
DETENTION TIME								FORWARD L. P. ROTOR BEARING					
REVOLUTION COUNTER (END OF WATCH)								AFT. L.P. ROTOR BEARING					
TOTAL REVOLUTIONS (FOR WATCH)								HOTTEST GEAR BEARING FORWARD		127			
AVERAGE RPM		844 ¹ ₁₁₀	844 ¹ ₆₃₀				TEMPERATURES (CONT'D)	HOTTEST GEAR BEARING AFT					
F.O. METER (END OF WATCH)	8440 570	44620	2562		64570	8444 450		AUX. COND. CONDENSATE		110	110	109	110 110
F.O. CONSUMED	1780	540	520			560		1ST STAGE FEED WATER HEATER		125	124	120	120 120
								D. C. FEED WATER HEATER	240	240	240	240	240 240
MACHINERY PARTICULARS	THROTTLE						TEMPERATURES	2ND STAGE FEED WATER HEATER	.41	41/7	.4	.4	41/7 .4
	H.P. AHEAD							F.O. TO BURNERS	185	185	185	185	185 185
	L.P. AHEAD							D. BACK PRESSURE	.41	.41	.4	.4	0.41 .4
	VACUUM		28 ²⁹ ₂₉	28 ²⁸ ₂₈	28 ²⁸ ₂₈	28 ²⁸ ₂₈		AIR TO FURNACE		140	135	130	133 129
	L.O. TO TURBINES		14	14	14	14	PRESSURES	UPTAKE		265	260	265	265 245
	AUX. STEAM	150	150	150	150	150		MAIN STEAM		4			
	BACK PRESSURE	1509	9	9	9	9		SUPER HEAT		440	430	430	450 440
	GLAND STEAM	3	3.0	3.	3	3.0		F.O. TO BURNERS		160	150	140	130 135
	H.P. BLEEDER							F.O. TEMP. IN SETTLING TANKS		108 ₉₆	108 ₉₂	108 ₁₀₀	108 ₁₀₅ 102 ₉₈
	I.P. BLEEDER						MISCELLANEOUS	PORT BOILER UPTAKE					
	L.P. BLEEDER							STBD. BOILER UPTAKE		0.1	.1	0.1	0.1 .1
PRESSURES	STEAM AT THROTTLE							ENGINE ROOM TEMPERATURE	105	105	105	105	98 100
	L.P. EXHAUST		145 ¹¹⁵ ₁₁₅	144 ¹¹⁵ ₁₁₅	150 ¹¹⁵ ₁₁₅	145		FIRE ROOM TEMPERATURE					
	CONDENSATE		110	100	90	95		NOZZLES IN USE					
	CIRC. WATER IN	90	90	90	90	87		NO. OF BURNERS IN USE		2	2	2	2 2
	CIRC. WATER OUT	101	98	88	88	90 ⁹⁴ ₈₈	MISCELLANEOUS	BURNER TIP SIZE		53 ₆₀	53 ₆₀	53 ₆₀	53 ₆₀ 53 ₆₀
	L.O. TO COOLERS		110	112	114	112		CO ₂ % PORT BOILER					
	L.O. FROM COOLERS		110	110	110	110		CO ₂ % STBD. BOILER					
	TEMPERATURE THRUST BEARING							OIL LEVEL MAIN SUMP	N	N	N	N	N
	FORWARD H.P. ROTOR BEARING												

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	DOMESTIC WATER
1200 TO 1600	1	1200	460	650	9	125	115		62	750	750	METER AT NOON	119.490	ON HAND AT START OF DAY	90
												METER PREVIOUS NOON	108.630	EVAPORATED OR RECEIVED	63
	2	1200	460	650	7	148	134		72	800	800	CONSUMED BY METER	10860	ON HAND	141
												ON HAND AT START OF DAY	6256	CONSUMED	12
1600 TO 2000	1	1200	440		9	125	114		62	550	550	RECEIVED DURING DAY	216256	ON HAND AT START OF DAY	
												EXPENDED DURING DAY	256	RECEIVED	
	2	1200	440		7	146	132		72	550	550	REMAINING ON BOARD	6000	ON HAND	
												ON HAND AT START OF DAY	1218	CONSUMED	
2000 TO 2400	1	1200	440		9	122	112		62	550	550	EVAPORATED OR RECEIVED			
												ON HAND	1063		
	2	1200	440		7	144	132		72	550	550	CONSUMED	155		
												LOW PRESS. EVAPORATORS (No. of hrs. operated) (Fresh water made gals.)	1-2/4	142	
2400 TO 0400	1	1200	440									L.O. CENTRIFUGE - HOURS OPERATED			
												1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400
	2	1200	440									4	4	4	4
0400 TO 0800	1	1200	440		9	122	112		62	550	550	SUMMARY			
												RUNNING TIME	244	PERCENT OF SLIP	
	2	1200	440		7	144	132		72	550	550	DETENTION TIME	✓	BBL FUEL/MI	
0800 TO 1200	1	1200	440		9	123	115		62	600	600	TOTAL REVOLUTIONS		WIND DIRECTION	
												AVERAGE R.P.M.		STATE OF SEA	
	2	1200	440		7	146	133		72	600	600	TOTAL MILES BY ENGINE		STATE OF WEATHER	
												TOTAL MILES BY OBSERVATION			

REMARKS

1200-1600 WATCH

UNDERWAY ON 16 NOZZLES - FOLLOWING MACHINERY IN OPERATION ^{WARRANTABLE}
 1230 - TESTED HEAD SET TELE/BRIDGE, OK
 1400 - STARTED AUX. CIRC. 1405 REDUCED SPEED TO THE BLACK (10 NOZZLES)
 F.O. METER - 8440570 STBY.

F.O. No 4

F.W.

MUF

MU-U

EVAP 142

GAL-D, 0100

STBY 1520 - 1530 SECURED BOTH BOILER MIN + BULKHEAD STEAM STOPS, ENGAGED + STARTED JACKING GEAR MIN. TURBINE.

WATCH ENGR'S SIGNATURE - Al Kober

1600-2000 WATCH

PLANT OPERATION AS BEFORE EXCEPT SHIFTED 1ST STAGE HEATER DRAINS FROM MAIN TO AUX. COND. SECURED PORT BOILER + VENTED SUPERHEATER @ 1600
 ROUTINE PORT WATCH BURNERS + STRAINERS CLEANED, REGISTER DRAIN HOLES FREE, REMOVED PLUG + STEM FROM F.O. CONTROL VALVE + THOROUGHLY CLEANED SAME. MACHINERY SPACES INSPECTED, BILGES PUMPED: BOILER AND CONDSTE TESTS. PORT BOILER FEED CHECK SECURED:

F.O. P-OUTBO

F.W. 3 PORT

MUF 1-PORT

MU-U 8.

EVAP 1-PORT

GAL-D 9800

WATCH ENGR'S SIGNATURE - C. W. Tracy

2000-2400 WATCH

Machinery as before, except; changed & cleaned middle burner #1 Boiler - changed & cleaned #1 generator lube oil strainers - added feed water to #2 Boiler as needed - Bilges @ safe level - Secured L. P. Evapor. @ 2330 - Aux. Exhaust Dump Valve unable to handle back pressure, bleeding some to atm - changed to dead bottom @ 2345 -

F.O. 1 INSP.

F.W. 3P

MUF DOUBLE BOTTOM

MU-U 13.

EVAP 1/5

GAL-D 10,200

WATCH ENGR'S SIGNATURE - M. Fox

2400-0400 WATCH

MACHINERY AS BEFORE - ROUTINE PORT WATCH - COMPLYING W/ NIGHTY STANDING ORDERS
 0000 - OPENED CROSS OVER VALVES AUX. EXHAUST SYSTEM TO AFT. ENG. ROOM - MAINTAINING BILGES @ SAFE LEVEL - 0230 OPENED VENT ON PORT BOILER @ 35 PSI - PUMPED No. 5 1+2 HOLDS PYS -

F.O. No 3 (INSP)

F.W. 17.1

MUF 17.5

MU-U 4.7

EVAP SEC

GAL-D

WATCH ENGR'S SIGNATURE - Al Kober

0400-0800 WATCH

REG ROUTINE PORT WATCH: OPERATION AS BEFORE: F.O. STRAINERS CLEANED, BURNER REGISTER DRAIN HOLES FREE, MACHINERY SPACES INSPECTED, BOILER CONDSTE. TESTS, PUMPED BILGE #1 P/S & E.R.: P. BOILER SUPERHEATER DRAINS OPEN:

F.O. P-INBO

F.W. 3 PORT

MUF 1 PORT

MU-U 6.

EVAP SEC

GAL-D

WATCH ENGR'S SIGNATURE - C. W. Tracy

0800-1200 WATCH

Machinery as before, except; - Blow Tank #1 Boiler 0800-0810 - Transfer fuel oil from 5P's into Port outboard sittle - Replaced 3 Filler Asbestos on Water End #1 main feed pump - Bilges @ safe level -

F.O. 1 INSP.

F.W. 3 AIP

MUF DOUBLE BOTTOM

MU-U 4.2

EVAP SEC

GAL-D

WATCH ENGR'S SIGNATURE - M. Fox

CHIEF ENGINEER

ARRIVAL - 1424 - Shaft Ctr. 02335990 - tank - 02329310
 F.O. METER 8440570

2 BOILER 1

S P. ALK 10.51

T. ALK 15.18

E CHLO 7.04

C PH. 4 50

U SO. 3 70

PH 10.5

P WS. HRS. 3502

E PS. HRS. 992

O

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							MACHINERY PARTICULARS (CONT'D)	AFT. H. P. ROTOR BEARING					
DETENTION TIME								FORWARD L. P. ROTOR BEARING					
REVOLUTION COUNTER (END OF WATCH)								AFT. L.P. ROTOR BEARING					
TOTAL REVOLUTIONS (FOR WATCH)								HOTTEST GEAR BEARING FORWARD					
AVERAGE RPM								HOTTEST GEAR BEARING AFT					
F.O. METER (END OF WATCH)								AUX. COND. CONDENSATE					
F.O. CONSUMED								1ST STAGE FEED WATER HEATER					
								D. C. FEED WATER HEATER					
								3RD STAGE FEED WATER HEATER					
								F.O. TO BURNERS					
								D.O. BACK PRESSURE					
								AIR TO FURNACE					
								UPTAKE					
								MAIN STEAM					
								SUPER HEAT					
								F.O. TO BURNERS					
								F.O. TEMP. IN SETTLING TANKS					
							PORT BOILER UPTAKE						
							STBD. BOILER UPTAKE						
							ENGINE ROOM TEMPERATURE						
							FIRE ROOM TEMPERATURE						
							NOZZLES IN USE						
							NO. OF BURNERS IN USE						
							BURNER TIP SIZE						
							CO ₂ % PORT BOILER						
							CO ₂ % STBD. BOILER						
							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		BOILER WATER		LUBE OIL	
1200 TO 1600	1	1200	440		9	126	114		62	650	650	240	METER AT NOON	25640	ON HAND AT START OF DAY	141	EVAPORATED OR RECEIVED	07
													METER PREVIOUS NOON	119.490				
1600 TO 2000	2	1200	440		7	147	133		72	650	650	240	CONSUMED BY METER	6150	ON HAND	117	CONSUMED	34
													ON HAND AT START OF DAY	6000	ON HAND AT START OF DAY			
													RECEIVED DURING DAY	—	RECEIVED			
													EXPENDED DURING DAY	146				
2000 TO 2400	1	1200	440		9	125	115		62	550	550	240	REMAINING ON BOARD	5854	ON HAND		ON HAND	
													ON HAND AT START OF DAY	1063	CONSUMED		CONSUMED	
													EVAPORATED OR RECEIVED	—				
													ON HAND	1000				
2400 TO 0400	2	1200	440		7	147	133		72	550	550	240	CONSUMED	63				
													LOW PRESS. EVAPORATORS (No. of hrs. operated)(Fresh water made gals.)					
													#1 3 hrs					
													L.O. CENTRIFUGE - HOURS OPERATED					
0400 TO 0800	1	1200	440		9	123	115		62	600	600	240	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
													4	4	4	4	4	4
0800 TO 1200	2	1200	440		7	146	133		72	600	600	240	SUMMARY					
													RUNNING TIME		PERCENT OF SLIP			
													DETENTION TIME		BBL FUEL/MI			
													TOTAL REVOLUTIONS		WIND DIRECTION			
	1	1200	440		9	124	114		62	600	600	240	AVERAGE R.P.M.		STATE OF SEA			
													TOTAL MILES BY ENGINE		STATE OF WEATHER			
													TOTAL MILES BY OBSERVATION					

REMARKS

1200-1600 WATCH

AT ANCHOR - ROUTINE PORT WATCH - FOLLOWING MACH. IN OPERATION - B2-G1E62 F.O. No 3
 M1-MC1-MER-A1-AER-D2-P2-F2-C1-L1-FS1-LC1-A.COM-ACCP-ACCW-JACKING F.W. No 35763
 GEAR ENGAGED - TURNING ANI TURB - REPAIR + MAINTENANCE WORK PROGRESSING - MAINTAINING BILGES MUF 13.3
 @SAFE LEVEL - CLEANED BILGE SUCTION STRAINER - MU-U 6.4
 EVAP SEC
 GAL-D

WATCH ENGR'S SIGNATURE-

Al Kober

1600-2000 WATCH

CONDITIONS AS BEFORE: F.O. BURNERS + STRAINERS CLEANED: BOILER + CONDSTE. F.O. S-INBD
 TESTS. MACHINERY SPACES INSPECTED: BURNER REGISTER DRAIN HOLES FREE: F.W. 3 STBD
 ENGINE RM BILGES PUMPED; OILER STENCILING LINES: COMPLIED W/DEPT. MUF 1 PORT
 ORDERS: MU-U 5
 EVAP
 GAL-D

OILER/VALLERAND - FWT/MORIE/

WATCH ENGR'S SIGNATURE-

CW Jacy

2000-2400 WATCH

Machinery as Before, Exapt; #1 Main Feed Pump Developed Bumping F.O. INBD.
 Noise, apparently after Feedwater overheated. First asst. Eng. called Below - Close Hatch F.W. 35.
 Kept on Pump - Changed & cleaned #2 Str. Late oil Strainers - Cargo Stear MUF DOUBLE BOTTOM
 Being used all Hatch 2000-2400 - Bilges @ Safe Level - MU-U 3.
 EVAP SEC.
 AL-D

Hatchstanders: Oiler-Bella Priem/Hatchstander-Jackson

WATCH ENGR'S SIGNATURE-

M. Prox

2400-0400 WATCH

AT ANCHOR - SAME AS BEFORE - COMPLYING W/NIGHT + STANDING ORDERS - CARGO F.O. No. 3 (INBD)
 BEING WORKED No. 6 HATCH - MAINTAINING BILGES @SAFE LEVEL - F.W. No 3 STBD
 MUF No. PORT
 MU-U 4.
 EVAP SEC.
 GAL-D

OILER-ZIMMERMAN - FWT-DANDRIDGE

WATCH ENGR'S SIGNATURE-

Al Kober

0400-0800 WATCH

CONDITIONS AS BEFORE; WORKING CARGO #6 HATCH; BURNER REGISTER F.O. S-INBD
 DRAIN HOLES FREE; BOILER + CONDSTE TESTS; MACHINERY SPACES INSP: F.W. 3 STBD
 OILER STENCILING LINES; FILLING #2 BOILER VIA COMPOUND LINE; COMPLIED MU-U 1 PORT
 W/DEPT ORDERS: #2 BOILER FILLED + SECURED: U-U
 L-D

OILER-VALLERAND/FWT-MORIE/REF.-HARDY/ELECT-PORTER

WATCH ENGR'S SIGNATURE-

CW Jacy

0800-1200 WATCH

Machinery as Before, Exapt; - Blew Inlet #1 Boiler 0800-0810 - F.O. INBD.
 Broke Vacuum main unit & turned Exhaust into out. Condenser - Shyja F.W. 32
 Force shocking on 70" Reducing Station, Port Boiler Steam Burner Regulator MUF DOUBLE BOTTOM
 Valve & Port Fuel oil control Valve - Howell, Elect. Regulator on Hatch, all MU-U 6.
 Deck clear O.K. - Bilges @ Safe Level - Lit off #1 L. O. Eng @ 0900 - Oil King EVAP #1 3 1/2
 Trans. Fuel oil GAL-D 2200

Oiler-Bella Priem/Hatchstander-Jackson

WATCH ENGR'S SIGNATURE-

M. Prox

CHIEF ENGINEER

0000 to 0400 CARGO ELECT-PORTER
 ELECT. PORTER - CARGO WINCHES #6 & 7 IN SERVICE 0400-0800, SATISFACTORY @ 0700

2 BOILER 1

S
 E P. ALK 10.51
 C T. ALK 15.18
 U CHLO 7.04
 R PH. 4 50
 E SO. 3 70
 PH 10.5
 P WS. HRS. 3526
 3720 FS. HRS. 1016
 1050

CHIEF ENGR'S SIGNATURE-

J. O'Halloran