USNS	VOYAGE NO.	~~FROM~~ AT	TO	TYPE OF VESSEL	DATE
GEN. JOHN POPE TAP INC		NSC CARLAND, CA.		PASSR	8-15/19-67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1136 6820	1136 1170	1136 1530	1136 1920	1136 2290	1136 2620
F.O. CONSUMED	465	350	360	390	370	330
MACHINERY PARTICULARS – PRESSURES – THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
VACUUM	28"	28"	28"	28"	28"	28"
L.O. TO TURBINES						
AUX. STEAM	150	150	150	150	150	130
BACK PRESSURE	9	9	9	9	9	9
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
TEMPERATURES – STEAM AT THROTTLE						
L. P. EXHAUST						
CONDENSATE						
CIRC. WATER IN	58	60	58	60	60	60
CIRC. WATER OUT	58/62	62/65	62/65	63/64	63/64	63/64
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) – TEMPERATURES (CONT'D) – HOTTEST GEAR BEARING FORWARD							
HOTTEST GEAR BEARING AFT							
AUX. COND. CONDENSATE		100/96	96/96	98/100	87/105	86/105	86/101
1ST STAGE FEED WATER HEATER		108	112	120	120	121	121
D. C. FEED WATER HEATER		240	240	240	240	240	240
3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS – TEMPERATURES – SUPER HEAT	P						
	S	600	625	610	610	600	600
F.O. TO BURNERS		100	90	150	190	190	190
AIR TO FURNACE	P						
	S						
F.O. TEMP. IN SETTLING TANKS	P	100	100	95	95	95	95
	S	100	100	100	90	95	90
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		285	290	285	280	280	280
PRESSURES – F. O. BACK PRESSURE		10	10	10	10	10	10
MAIN STEAM		440	440	440	440	440	440
F.O. TO BURNERS		170	200	190	170	180	180
MISCELLANEOUS – MAIN COND. SALINITY							
ENGINE ROOM TEMPERATURE		76	72	70	67	67	73
FIRE ROOM TEMPERATURE							
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
	S	1	1	1	1	1	
BURNER TIP SIZE	P						
	S	52/70	52/70	52/70	52/70	52/70	52/70
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	600	9	120	110		61	700	700	240
	2	1200	440	"	9	122	110		63	800	800	240
1600 TO 2000	1	1200	440	625	9	120	110		62	-	-	200 ~~240~~
	2	1200	440	"	9	122	110		62	1550	1550	240
										~~1500~~		
2000 TO 2400	1	1200	440	610	9	120	110		62	—	—	200
	2	1200	440	610	9	126	112		62	1450	1450	240
2400 TO 0400	1	1200	440	610	10	124	105		62	~~1500~~	~~1500~~	240
	2	1200	440	610	9	124	110		62	1500	1500	240
0400 TO 0800	1	1200	440	600	10	124	105		62	~~1500~~	~~1500~~	240
	2	1200	440	600	9	124	110		60	1500	1500	240
0800 TO 1200	1	1200	440	600	10	124	110		61	—	—	
	2	1200	440	600	9	124	110		63	1500	1500	

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	11362620	BOILER WATER – ON HAND AT START OF DAY	220
	METER PREVIOUS NOON	11360400	EVAPORATED OR RECEIVED	10
	CONSUMED BY METER	2220	ON HAND	220
	ON HAND AT START OF DAY	4471	CONSUMED	10
	RECEIVED DURING DAY	-0-	LUBE OIL – ON HAND AT START OF DAY	2185
	EXPENDED DURING DAY	52	RECEIVED	-0-
	REMAINING ON BOARD	4419	ON HAND	2180
DOMESTIC WATER	ON HAND AT START OF DAY	900	CONSUMED	5
	EVAPORATED OR RECEIVED	-0-	DIESEL OIL – ON HAND	1245
	ON HAND	850	RECEIVED	1242
	CONSUMED	20	CONSUMED	3

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		PROPELLER SLIP (%)	
DETENTION TIME		BBL FUEL MI	
TOTAL REVOLUTIONS		WIND DIRECTION	
AVERAGE R.P.M.		STATE OF SEA	
TOTAL MILES BY ENGINE		STATE OF WEATHER	
TOTAL MILES BY OBSERVATION			

REMARKS

1200-1600 WATCH

Port Reliefs Water. Made up Gen Port Boiler Blower. F.O. Service Pump with No. 1 Elec. F.O. Pump with Sec. Stby. Cold Start. Port Reliefs Gen. & Made & Pump and Aux Gen. No. 1 Sec. Pump & Elec. F.W. Pump. Aux. Air Comp. Checked machy and outlying spaces. Pumped F.W. bilge. Changed and cleaned burner and all F.O. Strs. Sent & Stsch. Air Comp. loaded. Oil must be bad. Otherwise condition good.

Ref, Beans, Silver Queen, Fat Pixley

WATCH ENGR'S SIGNATURE- [signature] R/E

1600-2000 WATCH

Port Relief Water. No changes in machy. Routine checks of machy and outlying spaces. Changed and cleaned burner and F.O. Disch. Str. Pumped Evap. F.W. & F.W. bilge satisfactory. Condition Normal.
1930 Tripped No. 1 Gen. off line - idling. Difficult to keep paralleled with light load.

Oiler - Lovell Fwt - Watkins Fofr - Gantil

WATCH ENGR'S SIGNATURE- [signature] R/E

2000-2400 WATCH

Port Relief Water. Machy same except No. 1 Gen. idling. Checked machy and outlying spaces. Changed and cleaned burners and F.O. Disch. Str. Pumped F.W. bilge. Complied with S/E & M/E. Condition Normal.

Oiler - Lovell Fwt - Watkins Rofr - Gantil

WATCH ENGR'S SIGNATURE- [signature] R/E

2400-0400 WATCH

Fwt Butler Reading Water 0007 Oiler Isaworth Reading Water 0013
Light Engr Blew Tubes 0125 to 0140 Police Boat Approach Seen that was not Directly was Favorable
Routine Port Water Bilges At Safe Level
Routine Inspections of Aux Main Spaces

Oiler Isaworth Fwt Butler

WATCH ENGR'S SIGNATURE- [signature] R/E

0400-0800 WATCH

Routine Port Water
Bilges OK
1 gal. L.O. to 1 Motor Pump.
Fwt Changed & Cleaned F.O. Disch. Strainer

Oiler Isaworth Fwt Butler

WATCH ENGR'S SIGNATURE- [signature] R/E

0800-1200 WATCH

Routine Port Water
Bilges OK

Chief Green Fwt Pixley Relief Beans

WATCH ENGR'S SIGNATURE- [signature] R/E

CHIEF ENGINEER

BOILER WATER READINGS

STB'D	PORT
HOURS 729	HOURS Sec.
AKL 9.93	AKL
T-AKL 14.60	T-AKL
SAL. 4.14	SAL.
PHOS. 50	PHOS.
pH 11	H. pH

CHIEF ENGR'S SIGNATURE- [signature]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
GEN. JOHN POPE FAP/10		NSC	OAKLAND, CA.	P2D2R	3-19/20-67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1136 3120	1136 3260	1136 3860	1136 4320	1136 4790	1136 5320
F.O. CONSUMED	500	320	400	463	470	530
MACHINERY PARTICULARS — PRESSURES — THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
GENS VACUUM 1	28"	28	28"	28"	28"	28"
GENS VACUUM 2						
L.O. TO TURBINES						
AUX. STEAM	125	120	120	170	140	150
BACK PRESSURE	9	9	9	9	9	9
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
TEMPERATURES — STEAM AT THROTTLE						
L. P. EXHAUST						
CONDENSATE						
CIRC. WATER IN	58	60	60	60	60	58
CIRC. WATER OUT	64/65	64/65	65/70	63/70	63/60	68
L.O. TO COOLERS	64/65					
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) — TEMPERATURES (CONT'D) — HOTTEST GEAR BEARING FORWARD							
HOTTEST GEAR BEARING AFT							
AUX. COND. CONDENSATE		104/106	110/110	108/110	110/110	101/90	108
1ST STAGE FEED WATER HEATER		135	130	134	130	126	130
D. C. FEED WATER HEATER		240	240	240	240	240	238
3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS — TEMPERATURES — SUPER HEAT	P						
	S	570	625	630	600	610	650
F.O. TO BURNERS		160	160	190	200	170	190
AIR TO FURNACE	P						
	S	1.1	1.1	1.1	1.1	1.1	1.1
F.O. TEMP. IN SETTLING TANKS	P	95	95	95	90	90	90
	S	95	95	95	90	90	100
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		280	280	285	275	280	305
PRESSURES — F. O. BACK PRESSURE		10	10	10	10	10	10
MAIN STEAM		440	440	440	440	440	440
F.O. TO BURNERS		180	180	200	200	200	140
MISCELLANEOUS — MAIN COND. SALINITY							
ENGINE ROOM TEMPERATURE		72	73	73	65	65	76
FIRE ROOM TEMPERATURE							
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
	S	1	1	1	1	1	2
BURNER TIP SIZE	P						
	S	53/70	53/70	53/70	53/70	53/70	53/70 55/60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	590	9	118	108		61	—	—	240
	2	1200	440	590	7	128	112		63	1450	1450	240
1600 TO 2000	1	1200	440	625	9	120	110		61	—	—	240
	2	1200	440	625	7	126	112		63	1500	1500	240
2000 TO 2400	1	1200	440	630	9	120	110		62	—	—	240
	2	1200	440	630	7	126	112		62	1500	1500	240
2400 TO 0400	1	1200	440	600	9	120	112		62	—	—	240
	2	1200	440	600	7	129	110		62	1500	1500	240
0400 TO 0800	1	1200	440	610	9	120	110		62	800	800	240
	2	1200	440	610	7	129	110		62	950	950	240
0800 TO 1200	1	1200	440	650	9	120	110		62	800	800	235
	2	1200	440	650	7	129	110		62	800	800	235

FUEL - WATER AND LUBE OIL

FUEL OIL — METER AT NOON	1136 5320	
FUEL OIL — METER PREVIOUS NOON	1136 2620	
FUEL OIL — CONSUMED BY METER	2700	
FUEL OIL — ON HAND AT START OF DAY	4419	
FUEL OIL — RECEIVED DURING DAY	-0-	
FUEL OIL — EXPENDED DURING DAY	64	
FUEL OIL — REMAINING ON BOARD	4355	
DOMESTIC WATER — ON HAND AT START OF DAY	880	
DOMESTIC WATER — EVAPORATED OR RECEIVED	-0-	
DOMESTIC WATER — ON HAND	860	
DOMESTIC WATER — CONSUMED	10	
BOILER WATER — ON HAND AT START OF DAY	220	
BOILER WATER — EVAPORATED OR RECEIVED	10	
BOILER WATER — ON HAND	220	
BOILER WATER — CONSUMED	10	
LUBE OIL — ON HAND AT START OF DAY	2180	
LUBE OIL — RECEIVED	-0-	
LUBE OIL — ON HAND	2175	
LUBE OIL — CONSUMED	5	
DIESEL OIL — ON HAND	1242	
DIESEL OIL — RECEIVED	1240	
DIESEL OIL — CONSUMED	2	

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		PROPELLER SLIP (%)	
DETENTION TIME		BBL FUEL MI	
TOTAL REVOLUTIONS		WIND DIRECTION	
AVERAGE R.P.M.		STATE OF SEA	
TOTAL MILES BY ENGINE		STATE OF WEATHER	
TOTAL MILES BY OBSERVATION			

REMARKS

1200-1600 WATCH

Port Relief Watch. Machy in Cont. No. 1 Boiler, Blower, Elec F.O. Serv Pump and Elec F. Pump with steam pumps stand-by, Cutbo. Sat., No. 1 F.O. Htr, No 1-2 Gens. No 2 on line, No 1 idling on voltage, No Cond Pump to Aux Cond, Aux. Cond. Elec Sani Comp & No. 1 Elec. F.W. Pump Aux. Air Ejector, Reserve 2B Motor Test Mtr. Lit at No Evap & save Nos F.O. Pumped AR Bilge, Cleaned and changed burner and F.O. Suct & Disch. Strs.

Chief - Quebe. Fwt - Pixley. Wtr - Boone. WATCH ENGR'S SIGNATURE [signature] RPE

1600-2000 WATCH

Port Relief Watch, Machy as before. Routine checks of machy and spaces. Changed cleaned burner & disch. str. Bilge at safe level. Condition Normal.

Chief - Lovell. Fwt - Mathews. Wtr - Gantt. WATCH ENGR'S SIGNATURE [signature] RPE

2000-2400 WATCH

Port Relief Watch. No changes in machy. Routine checks of machy and outlying spaces. Changed and cleaned burner & disch. str. Pumped Evap Flat Bilge. AR bilge at safe level. Complied with S/C & M/C. Condition Normal.

Chief - Lovell. Fwt - Watkins. Wtr - Gantt. WATCH ENGR'S SIGNATURE [signature] RPE

2400-0400 WATCH

Changed to #3 on 1430 F.O. Settler @ 2345
Routine Rounds & spot
Bilges at safe level.

Chief Stanworth. Fwt Butler WATCH ENGR'S SIGNATURE [signature]

0400-0800 WATCH

Changed F.O. Disch. Strainer + Burner + Cleaned Burner
Routine Port watch
Put 4 Gen on the line @ 0700

Chief Stanworth. Fwt Butler WATCH ENGR'S SIGNATURE [signature]

0800-1200 WATCH

In port Mach in operation as before, Cleaned + Changed Burners. Working as per work list. Made Rounds + Insp of Mach + Eng spaces.

WATCH ENGR'S SIGNATURE- R Summers

CHIEF ENGINEER

BOILER WATER READINGS

STBD	PORT
HOURS 803	HOURS Sec
AKL 9.83	AKL
T-AKL 14.60	T-AKL
SAL. 4.14	SAL.
PHOS. 50	PHOS.
[illegible] 11	R.pH

CHIEF ENGR'S SIGNATURE- [signature]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
USNS Gen Pope TAP-110		NSC. Oakland,		P2-S2-R2	3-20-21-67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1136 5910	1136 6350	1136 6860	1136 7370	1130 7950	1135 8500
F.O. CONSUMED	590	440	510	510	580	550
MACHINERY PARTICULARS — PRESSURES — THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
VACUUM						
L.O. TO TURBINES						
AUX. STEAM	150	145	145	145	145	145
BACK PRESSURE	9	9	9	9	9	9
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
TEMPERATURES — STEAM AT THROTTLE						
Aux. / L.P. EXHAUST		122/15	128/15	116/108	119/108	122/122
CONDENSATE						
CIRC. WATER IN	58	57	56	56	56	58
Aux. / CIRC. WATER OUT	68	67/65	65/65	70/64	70/64	68/64
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						–
FORWARD H.P. ROTOR BEARING						–
AFT. H.P. ROTOR BEARING						–
FORWARD L.P. ROTOR BEARING						–
AFT. L.P. ROTOR BEARING						–

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) — TEMPERATURES (CONT'D) — HOTTEST GEAR BEARING FORWARD							
HOTTEST GEAR BEARING AFT		3 90°					
AUX. COND. CONDENSATE		108	~~119~~ 118	88	88	88	88
1ST STAGE FEED WATER HEATER		130	116	120	118	118	118
D. C. FEED WATER HEATER		238	240	240	240	240	240
3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS — TEMPERATURES — SUPER HEAT	P						
	S	630	640	650	650	650	[illegible]
F.O. TO BURNERS		190	190	190	190	190	190
AIR TO FURNACE	P						
	S	1.0	1.0	1.0	1.0	1.0	1.0
F.O. TEMP. IN SETTLING TANKS	P		95	90	95	115	[illegible]
	S	95	100	95	95	90	[illegible]
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		305	300	295	295	295	305
PRESSURES — F. O. BACK PRESSURE		12	12	12	12	12	12
MAIN STEAM		448	440	440	440	440	440
F.O. TO BURNERS		150	180	170	200	175	180
MISCELLANEOUS — MAIN COND. SALINITY		.41	.04	.04	.04	.04	.04
ENGINE ROOM TEMPERATURE		74	75	74	72	72	68
FIRE ROOM TEMPERATURE		74			72	72	68
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
	S	2	2	2	2	2	2
BURNER TIP SIZE	P						
	S	55/61 55/70	55/60	55/60	55/60	55/60	55/60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440		9	120	110		62	750	750	235
	2	1200	440		7	129	110		62	800	800	235
1600 TO 2000	1	1200	440	640	9	120	110		62	800	800	240
	2	1200	440	640	7	124	110		62	800	800	240
2000 TO 2400	1	1200	440	650	9	120	110		62	900	900	240
	2	1200	440	650	7	124	108		62	900	600	240
2400 TO 0400	1	1200	440	650	9	120	110		62	1000	1000	240
	2	1200	440	650	7	124	110		62	600	600	240
0400 TO 0800	1	1200	440	650	9	128	109		62	800	800	240
	2	1200	440	650	7	124	110		62	750	750	240
0800 TO 1200	1	1200	440	650	9	120	110		62	900	900	240
	2	1200	440	650	7	124	108		62	850	850	240

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	11368500	BOILER WATER	ON HAND AT START OF DAY	220
	METER PREVIOUS NOON	11365320		EVAPORATED OR RECEIVED	20
	CONSUMED BY METER	3180		ON HAND	230
	ON HAND AT START OF DAY	4,355		CONSUMED	10
	RECEIVED DURING DAY	-0-	LUBE OIL	ON HAND AT START OF DAY	2175
	EXPENDED DURING DAY	75		RECEIVED	-0-
	REMAINING ON BOARD	4,280		ON HAND	2170
DOMESTIC WATER	ON HAND AT START OF DAY	860		CONSUMED	5
	EVAPORATED OR RECEIVED	-0-	DIESEL OIL	ON HAND	1240
	ON HAND	820		RECEIVED	1238
	CONSUMED	40		CONSUMED	2

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

REMARKS

1200-1600 WATCH

Port watch. Mach in operation #1 Boiler, #1 FD Blower #1 Main Fuel pump #1 & #2 Generators, #1 Main Cond pump, #1 Aux Circ pump, #1 Air Comp. #1 Fire pump. @ 1400 pumped antifoul settler from #6 Dup tks. Made Rounds + Insp of Mach + Eng Spaces – Bilges at Safe level.

Men working as per Work List. Good & efficient on various jobs.

Giles Quinn, 7th Morgan, WATCH ENGR'S SIGNATURE- R Summers

1600-2000 WATCH

Port Reliief Watch Mach'y as left and as before. Checked mach'y and spaces. Changed and cleaned burners and disch str. Pumped bilge. No cargo work tonight. Condition Normal. Evap Flat Bilge satisfactory

Chief - Lovell FWT - ~~Pinter~~ Watkins 2nd Eng - Gentil WATCH ENGR'S SIGNATURE- C. E. Lovell, R/E

2000-2400 WATCH

Port Relief Watch. Mach'y same. Changed and cleaned burners and disch str. Checked mach'y and spaces. Pumped ER bilge & Evap Flat. Condition Normal.

Chief - Lovell FWT - ~~Pinter~~ Watkins 2nd Eng - Gentil WATCH ENGR'S SIGNATURE- C. E. Lovell, R/E

2400-0400 WATCH

Routine Port Watch.

Bilges At Safe Level.

P.C. Sea To Settling @ 0315

Routine inspections of Mn & Aux Mach. Spaces Made At Regular Intervals

Chief Stallworth FWT Butler WATCH ENGR'S SIGNATURE- [illegible]

0400-0800 WATCH

Routine Port Watch Except Dead Tow Shift

Disconnected F.W. Hose @ 0530 (Chief) B/C Chief Engr Start Cir L.O. Through #1 & 2 Main Units @ 0600

Relieved At 0755

Chief Stallworth FWT Butler WATCH ENGR'S SIGNATURE- [illegible]

0800-1200 WATCH

Port watch machinery in operation as before changed & cleaned F.O. Burner & Disch. Strainer. Started water washing Boiler. Takes Port Boiler cleaning fire side. Crew working as per work list. Sec. L.O. Pump @ 0900.

WATCH ENGR'S SIGNATURE- L. Harris

CHIEF ENGINEER

BOILER WATER READING

[illegible] PORT

[illegible] 827 [illegible] S&C

[illegible] 9.34 [illegible]

[illegible] 14.02 [illegible]

[illegible] 4.17 [illegible]

[illegible] 40 [illegible]

[illegible] 11 [illegible]

Sol 45

PH Cond. 8.0

CHIEF ENGR'S SIGNATURE- [illegible]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
John PoPe TAP-110				P2-S2-R-2	3-21/22-67

	WATCH					
	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1130 9030	1136 9470	1136 9900	1137 0330	1137 0180	1137 1220
F.O. CONSUMED	530	440	430	430	450	440
MACHINERY PARTICULARS — PRESSURES — THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
AUX. VACUUM 1		28"	28"	29"	29"	29"
AUX. VACUUM 2						
L.O. TO TURBINES						
AUX. STEAM	150	150	150	150	150	150
BACK PRESSURE	9	9	9	9	9	9
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
MACHINERY PARTICULARS — TEMPERATURES — STEAM AT THROTTLE						
AUX ~~L.P.~~ EXHAUST	100/105	96/100	98/100	88/88	94/100	96/100
CONDENSATE	~~L.P.~~ 57					
CIRC. WATER IN	58	58	58	58	57	58
CIRC. WATER OUT	68/64	68/64	65/64	66/62	68/64	68/64
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

			WATCH					
			1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) — TEMPERATURES (CONT'D)	HOTTEST GEAR BEARING FORWARD							
	HOTTEST GEAR BEARING AFT							
	AUX. COND. CONDENSATE			90	83	83	85	100
	1ST STAGE FEED WATER HEATER		128	128	132	132	130	138
	D. C. FEED WATER HEATER		240	240	240	240	240	240
	3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS — TEMPERATURES	SUPER HEAT	P	~~640~~					
		S	640	625	625	630	630	640
	F.O. TO BURNERS		190	190	190	190	190	190
	AIR TO FURNACE	P						
		S	1.0	1.0	1.0	1.0	1.0	1.0
	F.O. TEMP. IN SETTLING TANKS	P	100	95	95	95	90	95
		S	105	110	105	100	100	89
	PORT BOILER UPTAKE							
	STBD. BOILER UPTAKE		310	295	305	287	285	300
PRESSURES	F. O. BACK PRESSURE							
	MAIN STEAM		480	450	440	440	440	440
	F.O. TO BURNERS		185	160	160	155	160	155
MISCELLANEOUS	MAIN COND. SALINITY		.41	.02	.02	.02	.02	.02
	ENGINE ROOM TEMPERATURE		70	72	71	69	69	71
	FIRE ROOM TEMPERATURE		70			69	69	71
	NOZZLES IN USE							
	NO. OF BURNERS IN USE	P	~~2~~	2				
		S	2	2	2	2	2	2
	BURNER TIP SIZE	P	~~53/64~~ 60					
		S	53/60	53/60	53/60	53/60	53/60	53/60
	CO_2 % PORT BOILER							
	CO_2 % STBD. BOILER							
	OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	450	640	9	118	108		61	900	900	235
	2	1200	450	640	7	124	110		63	850	850	235
1600 TO 2000	1	1200	450	625	9	120	108		62	850	850	240
	2	1200	450	625	7	124	110		62	850	850	240
2000 TO 2400	1	1200	450	625	9	120	108		62	800	800	240
	2	1200	450	625	7	124	110		62	700	800	240
2400 TO 0400	1	1200	450	630	9	118	106		62	600	600	240
	2	1200	450	630	7	124	108		62	1000	1000	240
0400 TO 0800	1	1200	450	635	9	120	110		62	700	600	240
	2	1200	450	635	7	122	100		62	1000	1000	240
0800 TO 1200	1	1200	450	640	9				62	700	700	240
	2	1200	450	640	7				62	800	700	240

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	1137120	BOILER WATER	ON HAND AT START OF DAY	230
	METER PREVIOUS NOON	1136800		EVAPORATED OR RECEIVED	-0-
	CONSUMED BY METER	2720		ON HAND	196
	ON HAND AT START OF DAY	4,280		CONSUMED	34
	RECEIVED DURING DAY	-0-	LUBE OIL	ON HAND AT START OF DAY	2170
	EXPENDED DURING DAY	64		RECEIVED	-0-
	REMAINING ON BOARD	4216		ON HAND	2160
DOMESTIC WATER	ON HAND AT START OF DAY	820		CONSUMED	10
	EVAPORATED OR RECEIVED	50	DIESEL OIL	ON HAND	1238
	ON HAND	796		RECEIVED	1235
	CONSUMED	54		CONSUMED	3

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

REMARKS

1200-1600 WATCH
Port watch machinery In operation #1 Boiler & F.D. Blower #1 Elect Blr Feed Pump. #1 F.O. Pump #1 + #2 S.S. Cir's. Aux. Cond. #1 Main Cond. Pumps. #1 Air Comp. #1 Fire Pump. F.W. Pump. Pumped Inboard Sett. Tank #6 Deep Tk. Crew working As Per work List.

WATCH ENGR'S SIGNATURE- F. Harris

1600-2000 WATCH
Port Relief Watch. Machinery above with M.E. Evap added. Routine checks of machy. and spaces. Changed and cleaned burners and F.O. Disc St. Bilge satisfactory.

Oiler - Lovell Fwt - Watkins Rfr. - ?

WATCH ENGR'S SIGNATURE- [illegible] M/E

2000-2400 WATCH
Port Relief Watch. Machy same. Made routine checks of mach. and spaces. Changed & cleaned burners and str. Pumped bilge. Complied with s/o E.N.C. Pumping Evap. Flat and U P/S.

Oiler - Lowell Fwt - Watkins Rfr. ?

WATCH ENGR'S SIGNATURE- [illegible] M/E

2400-0400 WATCH
Plant As Before. Opened #2 Bilge Pump Bilge Main Section Valves (Air Chamber - Spring Chamber) and Pumped Shaft Alley Port & Stbd & Aft Bilge Wells.

Oiler Stallworth Fwt Rodder

WATCH ENGR'S SIGNATURE- [illegible] 2/E

0400-0800 WATCH
Diesel At Safe Level
Relieving Port Watch

Watch As Before.

WATCH ENGR'S SIGNATURE- [illegible] 2/E

0800-1200 WATCH
Port watch machinery In operation As Before finished cleaning #2 Boiler fire side started closeing some up crew working As Per work list Pumped Bilges.

WATCH ENGR'S SIGNATURE- L. Harris

CHIEF ENGINEER

BOILER WATER READINGS

STB'D	PORT
HOURS 851	HOURS Sec.
AKL 9.34	AKL
T-AKL 14.02	T-AKL
SAL. 4.44	SAL.
PHOS. 40	PHOS.
N.ph 11	N.ph

Sec 40
Ph. cond. 8.0

CHIEF ENGR'S SIGNATURE- [illegible]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
John Pope TAP-110		At Use Oakland		P2-S2-R2	3/22-23/67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1137 1660	1137 2060	1137 2490	1137 2920	1137 3350	1137 3790
F.O. CONSUMED	420	400	410	450	430	440
MACHINERY PARTICULARS – PRESSURES – THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
AUX VACUUM	26.5"	27.5"	28"	28"	28"	28.5
L.O. TO TURBINES						
AUX. STEAM	150	150	150	150	145	150
BACK PRESSURE	9	9	9	9	9	9
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
TEMPERATURES – STEAM AT THROTTLE						
AUX. EXHAUST	88/95	102/80	105/108	106/106	119/107	96/96
CONDENSATE						
CIRC. WATER IN	58	60	60	60	60	58
CIRC. WATER OUT	68/64	72/66	74/62	72/66	77/62	67/65
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) – TEMPERATURES (CONT'D) – HOTTEST GEAR BEARING FORWARD							
HOTTEST GEAR BEARING AFT							
AUX. COND. CONDENSATE		82	97	102	100	100	106
1ST STAGE FEED WATER HEATER		134	140	122	132	118	118
D. C. FEED WATER HEATER		240	240	240	240	240	240
3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS – TEMPERATURES – SUPER HEAT	P						
	S	640	650	610	620	600	620
F.O. TO BURNERS		190	190	190	190	190	190
AIR TO FURNACE	P						
	S	1.0	1.0	1.0	1.0	1.0	1.0
F.O. TEMP. IN SETTLING TANKS	P	100	90	90	90	90	90
	S	105	95	95	90	90	95
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		295	300	295	260	267	[illegible]
PRESSURES – F. O. BACK PRESSURE							
MAIN STEAM		440	440	440	440	440	440
F.O. TO BURNERS		150	140	140	145	160	160
MISCELLANEOUS – MAIN COND. SALINITY		.41	.041	.041	.041	.041	.041
ENGINE ROOM TEMPERATURE		74	73	72	66	66	74
FIRE ROOM TEMPERATURE		74			66	66	74
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
	S	2	2	2	2	2	2
BURNER TIP SIZE	P						
	S	53/60	53/60	53/60	53/60	53/60	53/60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	640	9	120	110	64 LH	61	800	800	235
	2	1200	440	640	7	124	110	63 LH	63	800	800	235
1600 TO 2000	1	1200	440	650	7	118	108	62	62	1400	1400	240
	2	1200	440	650	7	124	108	62	62	—	—	240
2000 TO 2400	1	1200	440	610	9	120	110		62	1450	1450	240
	2	1200	440	610	7	120	108		62	—	—	240
2400 TO 0400	1	1200	440	620	9	120	110		62	1350	1350	240
	2	1200	440	620	7	124	110		62	—	—	240
0400 TO 0800	1	1200	440	620	9	122	112		62			240
	2	1200	440	600	7	122	110		62			240
0800 TO 1200	1	1200	440	620	9				62	900	900	241
	2	1200	440	620	7				62	900	900	241

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	11373790	BOILER WATER	ON HAND AT START OF DAY	186
	METER PREVIOUS NOON	11371220		EVAPORATED OR RECEIVED	-0-
	CONSUMED BY METER	2570		ON HAND	184
	ON HAND AT START OF DAY	4216		CONSUMED	12
	RECEIVED DURING DAY	-0-	LUBE OIL	ON HAND AT START OF DAY	2160
	EXPENDED DURING DAY	60		RECEIVED	-0-
	REMAINING ON BOARD	4156		ON HAND	2150
DOMESTIC WATER	ON HAND AT START OF DAY	796		CONSUMED	10
	EVAPORATED OR RECEIVED	120	DIESEL OIL	ON HAND	1235
	ON HAND	876		RECEIVED	1232
	CONSUMED	34		CONSUMED	3

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

REMARKS

1200-1600 WATCH
Port watch machinery In operation #1 Boiler & F.D. Blower #1 Elect Feed Pump #1 F.O. Pump #1 & #2 S.S. Cons. Aux. Circ. Pump #1 Mn. Cond. Pump Air Comp. #1 Fire Pump. Fw. Pump. Crew working as per work list

WATCH ENGR'S SIGNATURE- L. Harris

1600-2000 WATCH
Port Relief Watch. Machy as before, Evap in service and as left, except at 1730 tripped No. 2 Gen. off line. Checked machy. and spaces. Changed and cleaned burners and F.O. Disch str. Necessary to have gland seal on Gen. No. 2 Gen. 5th en. Bilge at safe level - PP list - some oil. Recirc. cracked open, return Evap set at 28# atm press to coll. stand all evening. Sky relief, 10" line, leaking.

Oiler - Lovell Fwt - Watkins Rfr - Gentil WATCH ENGR'S SIGNATURE- [illegible] R/E

2000-2400 WATCH
Port Relief Watch. No change in machy. Routine check of machy and spaces. Changed and cleaned burners and str. Pumped ER bilge 'down'. Complied with S/C & N/C. Condition Normal

Oiler - Lovell Fwt - Watkins Rfr - Gentil WATCH ENGR'S SIGNATURE- [illegible] R/E

2400-0400 WATCH
Blew tubes stop boiler after receiving permission to blow same from Port Authorities via Night Relief Officer
Routine Port watch
Bilges at safe level

Oiler - Stallworth Fwt Butler Refer Asher WATCH ENGR'S SIGNATURE- [illegible]

0400-0800 WATCH
Routine Port watch
Bilges at safe level
Changed & cleaned burners & discharge strainer
Put #2 Gen. in the line - @ 0710
Changed to #3 (inbd) F.O. settler at 0717

Watch as before. WATCH ENGR'S SIGNATURE- [illegible]

0800-1200 WATCH
Port watch machinery in operation as before changed & cleaned R.O. Burner & Disch. strainers. Crew working as per work list. Pool mess & wipers cleaning & painting lower flat Eng. Room. Sec. Air Comp. Elect. Installing new under header Pumped Bilges. & #4 Bold. Pump Walls

WATCH ENGR'S SIGNATURE- L. Harris

CHIEF ENGINEER

BOILER WATER READINGS

STBD	PORT
HOURS 875	HOURS Sec.
AKL 9.34	AKL
T-ALK 14.02	T-ALK
SAL. 4.14	SAL.
PHOS. 46	PHOS.
R.ph 11	R.ph
SO3 40	
PO4 Cond. 8.0	

CHIEF ENGR'S SIGNATURE- [illegible]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
John Pope TAP-110		At NSC OAKLAND		P-2-54-R2 ~~P-2-Gun~~	3-23-24-67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1137 4930	1137 4620	1137 5030	1137 5760	1137 5910	1137 6430
F.O. CONSUMED	440	390	410	730	450	520
MACHINERY PARTICULARS — PRESSURES — THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
AUX VACUUM	28.5	28.5"	27"	27"	27"	27"
L.D. TO TURBINES						
AUX. STEAM	150	150	150	150	150	150
BACK PRESSURE	9	9	9	9	9	9
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
MACHINERY PARTICULARS — TEMPERATURES — STEAM AT THROTTLE						
AUX. L.P. EXHAUST	100/105	95/92	99/98	90/88	99/99	99/98
CONDENSATE						
CIRC. WATER IN	58	58	58	58	58	58
CIRC. WATER OUT	74/66	70/64	72/68	72/67	70/64	77/68
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) — TEMPERATURES (CONT'D)	HOTTEST GEAR BEARING FORWARD						
	HOTTEST GEAR BEARING AFT						
	AUX. COND. CONDENSATE	94	88	92	92	92	~~95~~ 89
	1ST STAGE FEED WATER HEATER	118	115	120	112	114	
	D. C. FEED WATER HEATER	240	240	240	240	240	240
	3RD STAGE FEED WATER HEATER						
BOILER PARTICULARS — TEMPERATURES — SUPER HEAT P							
SUPER HEAT S		630	630	660	630	630	630
F.O. TO BURNERS		180	190	190	190	190	180
AIR TO FURNACE P							
AIR TO FURNACE S		110 ~~150~~	100	100	100	100	100
F.D. TEMP. IN SETTLING TANKS P		100	95	90	90	90	95
F.D. TEMP. IN SETTLING TANKS S		105	100	95	100	95	105
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		270	270	285	275	285	295
BOILER PARTICULARS — PRESSURES — F. O. BACK PRESSURE							
MAIN STEAM		440	440	440	440	440	440
F.O. TO BURNERS		160	160	140	140	175	153
MISCELLANEOUS — MAIN COND. SALINITY		.41	.02	.02	.02	.02	.41
ENGINE ROOM TEMPERATURE		75	72	69	69	69	70
FIRE ROOM TEMPERATURE		75					
NOZZLES IN USE							
NO. OF BURNERS IN USE P							
NO. OF BURNERS IN USE S		2	2	2	2	2	2
BURNER TIP SIZE P							
BURNER TIP SIZE S		53/60	53/60	53/60	53/60	53/60	53/60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	630	9	120	110		61	700	700	235
	2	1200	440	630	7	124	110		63	800	800	235
1600 TO 2000	1	1200	440	630	7	120	110		62	800	800	240
	2	1200	440	630	7	120	110		62	700	700	240
2000 TO 2400	1	1200	440		9	120	110		62	700	700	240
	2	1200	440		7	120	110		62	600	600	240
2400 TO 0400	1	1200	440	630	9	120	110		62	1000	1000	240
	2	1200	440	630	7	124	110		62	450	452	240
0400 TO 0800	1	1200	440	630	9	120	106		62	600	600	240
	2	1200	440	630	7	122	109		62	850	852	240
0800 TO 1200	1	1200	440	630	9	120	110		61	950	950	235
	2	1200	440	630	7	124	110		63	950	950	235

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	1137 6430	BOILER WATER — ON HAND AT START OF DAY	184
	METER PREVIOUS NOON	1137 3790	BOILER WATER — EVAPORATED OR RECEIVED	-0-
	CONSUMED BY METER	2640	BOILER WATER — ON HAND	170
	ON HAND AT START OF DAY	4156	BOILER WATER — CONSUMED	14
	RECEIVED DURING DAY	-0-	LUBE OIL — ON HAND AT START OF DAY	2150
	EXPENDED DURING DAY	60	LUBE OIL — RECEIVED	-0-
	REMAINING ON BOARD	4096	LUBE OIL — ON HAND	2145
DOMESTIC WATER	ON HAND AT START OF DAY	876	LUBE OIL — CONSUMED	5
	EVAPORATED OR RECEIVED	-0-	DIESEL OIL — ON HAND	1232
	ON HAND	830	DIESEL OIL — RECEIVED	1230
	CONSUMED	46	DIESEL OIL — CONSUMED	2

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		PROPELLER SLIP (%)	
DETENTION TIME		BBL FUEL-MI	
TOTAL REVOLUTIONS		WIND DIRECTION	
AVERAGE R.P.M.		STATE OF SEA	
TOTAL MILES BY ENGINE		STATE OF WEATHER	
TOTAL MILES BY OBSERVATION			

REMARKS

1200-1600 WATCH
Port Watch Machinery In operation #1 Boiler & F.D. Blower #1 Elect. Feed Pump #1 F.O. Pumps #1 & #2 S.S. Cons. #1 DIR Comp #1 Fire Pumps #1 Mn. cond. Pump Aux. Circ Pumps. Crew working as per work List.

WATCH ENGR'S SIGNATURE- F. Harris

1600-2000 WATCH
Port Relief Watch. Mach'y. as above with No 1 Air Compressor added and M. Evap. checked mach'y. and spaces. Changed and cleaned burners and F.O. Disch. Str. Bilge at safe level. At 1830 John McC (MSR) and helper removed spare Gun Gov. to shop for reconditioning.

Oiler - Lovell Fwt - Watkins Refr - Gintal WATCH ENGR'S SIGNATURE- [illegible] Lawrence N.E.

2000-2400 WATCH
Port Relief Watch. Mach'y. same. Checked and cleaned burners and F.O. Disch. Str. Pumped E.R. bilge down. Complied with S/C & M/C. Condition Normal.

Oiler - Lovell Fwt - Watkins Refr. Gintal WATCH ENGR'S SIGNATURE- [illegible] Lawrence N.E.

2400-0400 WATCH
Routine Port Watch.
Routine Inspections made of main & aux. Machinery Spaces

Oiler Stallworth Fwt Butler Refr. Gintal WATCH ENGR'S SIGNATURE- [illegible] F/O

0400-0800 WATCH
Routine Port Watch
Bilges at safe level although rising. #1 Bilge pump has signs that oil is in suction manifold.

Oiler Flat & Refr as before WATCH ENGR'S SIGNATURE- [illegible]

0800-1200 WATCH
Port watch machinery in operation as before changed & cleaned F.O. burners & disch. strainers. Pat was painting lower flat Eng. room. Crew working as per work list.

WATCH ENGR'S SIGNATURE- F. Harris

CHIEF ENGINEER

[illegible] WATER READINGS

[illegible]	PORT
[illegible] 899	[illegible] Sec.
[illegible] 9.93	A.D.
[illegible] 14.60	T. Add
[illegible] 2.09	Add.
PHOS. 40	PHOS.
R.ph 11	R.ph
503 58	
Pn Cond. 800	

CHIEF ENGR'S SIGNATURE- [illegible]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
John Pope TAP-110		At NSC Oakland		P2-S2-R2	3-24/25/67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1137 6910	1137 7310	1137 7740	1137 8190	1137 8640	1137 9070
F.O. CONSUMED	480	400	430	450	450	430
MACHINERY PARTICULARS — PRESSURES — THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
AUX VACUUM	29"	29"	29"	29	25"	
L.O. TO TURBINES						
AUX. STEAM	145	140	140	140	140	
BACK PRESSURE	9	9	9	9	9	
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
TEMPERATURES — STEAM AT THROTTLE						
AUX EXHAUST	101/102	100/100	98/98	95/90	99/98	90/97
CONDENSATE						
CIRC. WATER IN	60	60	60	60	60	60
CIRC. WATER OUT	70/67	68/66	72/66	68/66	69/64	68/66
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) — TEMPERATURES (CONT'D) — HOTTEST GEAR BEARING FORWARD							
HOTTEST GEAR BEARING AFT							
AUX. COND. CONDENSATE		91	92	90	90	87	87
1ST STAGE FEED WATER HEATER		122	118	116	116	116	112
D. C. FEED WATER HEATER		240	240	240	290	290	290
3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS — TEMPERATURES — SUPER HEAT	P						
	S	630	610	650	650	690	620
F.O. TO BURNERS		190	190	190	190	190	190
AIR TO FURNACE	P						
	S	1.0	1.2	1.2	1.4	1.4	1.4
F.O. TEMP. IN SETTLING TANKS	P	100	100	100	95	95	97
	S	105	105	105	95	100	99
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		290	280	270	287	285	285
PRESSURES — F. O. BACK PRESSURE							
MAIN STEAM		440	440	440	440	440	440
F.O. TO BURNERS		160	160	150	150	160	160
MISCELLANEOUS — MAIN COND. SALINITY		.41	.06	.09	.06	.09	.09
ENGINE ROOM TEMPERATURE		75	70	69	67	67	65
FIRE ROOM TEMPERATURE							
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
	S	2	2	2	2	2	2
BURNER TIP SIZE	P						
	S	53/60	53/60	53/60	53/60	53/60	53/60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	630	9	126	115	64	62	950	950	240
	2	1200	440	630	7	126	110		62	950	950	240
1600 TO 2000	1	1200	440	610	9	120	110		62	900	900	240
	2	1200	440	610	9	120	110		62	900	900	240
2000 TO 2400	1	1200	440	650	9	120	110		62	900	900	240
	2	1200	440	650	9	120	110		62	900	900	240
2400 TO 0400	1	1200	440	640	9	118	105		62	1000	1000	240
	2	1200	440	640	7	124	110		62	950	950	240
0400 TO 0800	1	1200	440	640	9	118	110		62	1000	1000	240
	2	1200	440	640	7	124	110		62	900	900	240
0800 TO 1200	1	1200	440	620	9	119	109		62	950	950	240
	2	1200	440	600	7	124	109		62	850	850	240

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	11379070	BOILER WATER — ON HAND AT START OF DAY	170
	METER PREVIOUS NOON	11376430	EVAPORATED OR RECEIVED	15
	CONSUMED BY METER	2640	ON HAND	170
	ON HAND AT START OF DAY	4096	CONSUMED	15
	RECEIVED DURING DAY	-0-	LUBE OIL — ON HAND AT START OF DAY	2145
	EXPENDED DURING DAY	90	RECEIVED	0
	REMAINING ON BOARD	4006	ON HAND	2140
DOMESTIC WATER	ON HAND AT START OF DAY	830	CONSUMED	5
	EVAPORATED OR RECEIVED	-0-	DIESEL OIL — ON HAND	1230
	ON HAND	800	RECEIVED	1228
	CONSUMED	30	CONSUMED	2

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		PROPELLER SLIP (%)	
DETENTION TIME		BBL FUEL MI	
TOTAL REVOLUTIONS		WIND DIRECTION	
AVERAGE R.P.M.		STATE OF SEA	
TOTAL MILES BY ENGINE		STATE OF WEATHER	
TOTAL MILES BY OBSERVATION			

REMARKS

1200-1600 WATCH
Port watch machinery in operation #1 Boiler + F.D. Blower #1 Elect. Feed Pump. #1 F.O. Pump #1 + #2 S.S. Cent. M.N. Cond. Pump #1 Fire Pump Aux. Circ. Pump. Air Comp. Pumped F.O. Salt. from #6 D.B. Tks. After Peak Tank Empty.

WATCH ENGR'S SIGNATURE- L. Harris

1600-2000 WATCH
Port Relief Watch. Machy as left with M.C. Evap in service, filling double bottom tank. Checked machy and spaces. Changed and cleaned burners and F.O. Disch Str. Anchor line (spring) brakes. Sawed lock off door to get to Capstan Switches knife Sw. Energized Capstans 1 & 2 for Mate and left 'ON'. Bilge at safe level. Looks like sea water in bilge. Did not pump.

Chief - Lovell. F.W.T. - Watkins. R.P.O. - Allen. WATCH ENGR'S SIGNATURE- [signature] R.P.O.

2000-2400 WATCH
Port Relief Watch. Machy same. Changed and cleaned burners and disch. str. Checked machy and spaces. Bilges at safe level. Did not pump. Complied with S/C & N/C. Condition Normal. Dbl. Btm. Res. about 1'-3" to get to F.

WATCH ENGR'S SIGNATURE- [signature] R.P.O.

Chief - Lovell. F.W.T. - Watkins. R.P.O. - Allen.

2400-0400 WATCH
Routine Port Watch.
Routine inspections of Main + Aux. Mach. Spaces made at Regular Intervals.

WATCH ENGR'S SIGNATURE- [signature]

0400-0800 WATCH
Chief Frankworth Relief Bother Raider Gentile
Machinery As Before.
Conferred with Standing + Night Orders.
At 0700 Rec. Call from Mr. McDonald Instructions were to call COT and wait for Day Orders.
Changed + Cleaned Burners + Disch. Strainer.
Added 1 gal. A.C. to L.W. Feed Tank.

WATCH ENGR'S SIGNATURE- [signature]

0800-1200 WATCH
With As Before.
D.B. Double Bottom Tk. Full at 0825.
Secured M.C. Evap.

WATCH ENGR'S SIGNATURE- [signature]

CHIEF ENGINEER
Chief McGinnis Relief W. Kirk Relief Jones

WATCH ENGR'S SIGNATURE- [signature]

[illegible] WATER BALLAST
923 [illegible] S.C.

4,193
14,60
2,07
40 [illegible]
17 [illegible]
5.35
Pm Cond. 8.0

CHIEF ENGR'S SIGNATURE- [signature]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
John R. Pope TAP-110		Atnsa Oakland		P2-S2-R-2	2-25-26-67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1137 / 1260	1137 / 850	1138 / 0240	1138 / 0670	1138 / 1090	1138 / 1510
F.O. CONSUMED	390	390	390	430	420	420
MACHINERY PARTICULARS — PRESSURES — THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
AUX. VACUUM	29"	29"	29"	29"	29"	29
L.O. TO TURBINES						
AUX. STEAM	150	145	145	145	145	145
BACK PRESSURE	9	10	10	10	10	10
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
TEMPERATURES — STEAM AT THROTTLE						
AUX. L.P. EXHAUST	94 / 99	94 / 99	94 / 99	96 / 99	96 / 99	96 / 99
CONDENSATE						
CIRC. WATER IN	60	60	60	60	60	60
CIRC. WATER OUT	70 / 67	70 / 67	70 / 67	70 / 66	70 / 66	70 / 66
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) TEMPERATURES (CONT'D) — HOTTEST GEAR BEARING FORWARD							
HOTTEST GEAR BEARING AFT							
AUX. CONO. CONDENSATE		87	85	87	88	90	85
1ST STAGE FEED WATER HEATER		110	110	112	114	114	112
D. C. FEED WATER HEATER		238	240	240	240	240	240
3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS — TEMPERATURES — SUPER HEAT	P	620	615	600	600	600	605
	S						
F.O. TO BURNERS		190	190	190	190	190	190
AIR TO FURNACE	P						
	S	1.2	1.2	1.2	1.4	1.4	1.4
F.O. TEMP. IN SETTLING TANKS	P	92	90	85	85	85	87
	S	100	100	95	95	95	99
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		270	280	280	285	285	285
PRESSURES — F. O. BACK PRESSURE							
MAIN STEAM		440	440	440	440	440	440
F.O. TO BURNERS		140	140	140	145	150	140
MISCELLANEOUS — MAIN COND. SALINITY		.02	.02	.02	.2	.2	.2
ENGINE ROOM TEMPERATURE		70	69	68	67	67	72
FIRE ROOM TEMPERATURE							
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
	S	2	2	2	2	2	2
BURNER TIP SIZE	P						
	S	53 / 60	53 / 60	53 / 60	53 / 60	53 / 60	53 / 60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	620	9	120	110		62	800	700	240
	2	1200	440	620	7	122	110		63	800	700	240
1600 TO 2000	1	1200	440	615	9	120	110		62	800	800	240
	2	1200	440	615	7	121	110		62	700	700	240
2000 TO 2400	1	1200	440	600	9	120	110		62	800	700	240
	2	1200	440	600	7	121	110		63	800	700	240
2400 TO 0400	1	1200	440	600	9	120	110		62	650	650	240
	2	1200	440	600	7	122	105		62	850	850	240
0400 TO 0800	1	1200	440	600	9	120	110		62	950	950	240
	2	1200	440	600	7	122	108		62	900	900	240
0800 TO 1200	1	1200	440	600	9	119	110		62	700	700	240
	2	1200	440	600	7	123	109		62	850	850	240

FUEL - WATER AND LUBE OIL

FUEL OIL — METER AT NOON	1138/1510	
FUEL OIL — METER PREVIOUS NOON	1137/0070	
FUEL OIL — CONSUMED BY METER	2440	
FUEL OIL — ON HAND AT START OF DAY	4006	
FUEL OIL — RECEIVED DURING DAY	-0-	
FUEL OIL — EXPENDED DURING DAY	58	
FUEL OIL — REMAINING ON BOARD	3948	
DOMESTIC WATER — ON HAND AT START OF DAY	800	
DOMESTIC WATER — EVAPORATED OR RECEIVED	-0-	
DOMESTIC WATER — ON HAND	780	
DOMESTIC WATER — CONSUMED	20	
BOILER WATER — ON HAND AT START OF DAY	170	
BOILER WATER — EVAPORATED OR RECEIVED	20	
BOILER WATER — ON HAND	175	
BOILER WATER — CONSUMED	15	
LUBE OIL — ON HAND AT START OF DAY	2140	
LUBE OIL — RECEIVED	-0-	
LUBE OIL — ON HAND	2135	
LUBE OIL — CONSUMED	5	
DIESEL OIL — ON HAND	1228	
DIESEL OIL — RECEIVED	1225	
DIESEL OIL — CONSUMED	3	

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

REMARKS

1200-1600 WATCH
Port Relief Watch. Machy. in Operation - No. 1 Boiler, F.D. Blower, F.W. Pump (Elec) & No. 1 F.C. Serv. Pump, No. 1-2 S.S. Gens, Circ. & Air Cond. Pump, No. 1 F.S. Pump, No. 2 F.W. Pump, No. 1 F.W. Comp. on Stdby., No. 1 Evap., Lobd. Sett. and No. 3 F.W. Checked machy. and spaces. Changed and cleaned burners and both F.C. disch. and suct. strs. Bilge at safe level. Water in L.R. painting bunker stands; ~~two~~ in lower E.R. painting.

Oiler - Remier FWT - McGinnis Rec'er - ~~[illegible]~~ BEAMS WATCH ENGR'S SIGNATURE [illegible] RIE

1600-2000 WATCH
Port Relief Watch. No changes in machy. Lower decs finally painted so far as paint lasted. No checks made until paint dries. Ships crew secured. Bilges safe.

Oiler - Lovell FWT - Watkins OFF - Marvin WATCH ENGR'S SIGNATURE [illegible] RIE

2000-2400 WATCH
Port Relief Watch. Machy. same. Spread paper on deck to cover requested by (D) 2nd for Oilers needs at 2200. Until paint set, no rounds. Pumped ER bilge down. Changed and cleaned burners on diesel st. Complied with S.S. & R.E. Condition Normal.

Oiler - Lovell FWT - Watkins OFF - Marvin WATCH ENGR'S SIGNATURE [illegible] RIE

2400-0400 WATCH
Normal Port Watch
Bilges At Safe Level
Routine inspections of M.N. & Aux. Mach. Spaces made at reg. intervals

Oiler Standing at Boiler Keeper Gentle WATCH ENGR'S SIGNATURE [illegible]

0400-0800 WATCH
Machinery As Before
Plant Normal As Before
Bilges At Safe Level
Changed & Cleaned Burners & Discharge Strainers

Watch As Before WATCH ENGR'S SIGNATURE [illegible]

0800-1200 WATCH
Machinery As Before
Bilges At Safe Level
Routine inspections of M.N. & Aux. Mach. Spaces made at Regular intervals

Oiler Standing Fire Watch Relief Beams WATCH ENGR'S SIGNATURE [illegible]

CHIEF ENGINEER

947 Sec.
9.34
14.02
2.07
30
17
50 30
PU Comb Sec.

CHIEF ENGR'S SIGNATURE [illegible]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
GEN. JOHN POPE T-AP	110	MOORED AT NSC	OAKLAND, CA	$P_2S_2R_2$	3-26/27-67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1138 1910	1138 2310	1138 2700	1138 3120	1138 3550	1138 4070
F.O. CONSUMED	400	400	390	420	430	520
MACHINERY PARTICULARS — PRESSURES — THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
~~AUX~~ VACUUM	29"	29"	29"	29"	29"	29"
L.O. TO TURBINES						
AUX. STEAM	145	145	145	145	145	145
BACK PRESSURE	10	10	10	10	10	10
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
TEMPERATURES — STEAM AT THROTTLE						
~~H.P.~~ AUX. EXHAUST	96/99	99/95	97/94	96/98	96/98	99/100
CONDENSATE						
CIRC. WATER IN	59	60	58	58	57	60
~~H.P.~~ AUX. CIRC. WATER OUT	69/65	70/66	68/64	67/69	68/69	70/61
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) — TEMPERATURES (CONT'D) — HOTTEST GEAR BEARING FORWARD							
HOTTEST GEAR BEARING AFT							
AUX. COND. CONDENSATE		88	87	85	87	84	90
1ST STAGE FEED WATER HEATER		112	112	112	112	112	116
D. C. FEED WATER HEATER		240	240	240	240	240	240
3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS — TEMPERATURES — SUPER HEAT	P						
	S	650	615	615	610	605	630
F.O. TO BURNERS		190	190	190	190	190	190
AIR TO FURNACE	P						
	S	1.2	1.2	1.2	1.4	1.4	1.2
F.O. TEMP. IN SETTLING TANKS	P	80	82	85	85	90	85
	S	97	90	95	95	105	100
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		295	295	290	285		275
PRESSURES — F. O. BACK PRESSURE							
MAIN STEAM		440	440	440	440		440
F.O. TO BURNERS		140	140	130	140		120
MISCELLANEOUS — MAIN COND. SALINITY		.02	.02	.02	.2	.2	.2
ENGINE ROOM TEMPERATURE		72	71	69	69	69	74
FIRE ROOM TEMPERATURE							
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
	S	2	2	2	2	2	2
BURNER TIP SIZE	P						
	S	53/60	53/60	53/60	53/60	53/60	53/60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	650	9	118	109		62	550	800	240
	2	1200	440	650	7	125	116		62	850	800	240
1600 TO 2000	1	1200	440	615	9	120	110		62	700	600	240
	2	1200	440	615	7	124	110		62	700	600	240
2000 TO 2400	1	1200	440	615	9	120	110		62	700	600	240
	2	1200	440	615	7	124	110		62	700	600	240
2400 TO 0400												
	1	1200	440	610	9	115	106		62	1100	1100	240
	2	1200	440	610	7	129	110		62	700	700	240
0400 TO 0800	1	1200	440	605	9	115	108		62	800	800	240
	2	1200	440	605	7	123	110		62	750	750	240
0800 TO 1200	1	1200	440	630	9	124	113		62	600	600	240
	2	1200	440	630	7	126	111		63	750	750	240

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	11384070	BOILER WATER — ON HAND AT START OF DAY	175
	METER PREVIOUS NOON	11381510	EVAPORATED OR RECEIVED	20
	CONSUMED BY METER	2560	ON HAND	180
	ON HAND AT START OF DAY	3948	CONSUMED	15
	RECEIVED DURING DAY	-0-	LUBE OIL — ON HAND AT START OF DAY	2135
	EXPENDED DURING DAY	50	RECEIVED	-0-
	REMAINING ON BOARD	3898	ON HAND	2130
DOMESTIC WATER	ON HAND AT START OF DAY	780	CONSUMED	5
	EVAPORATED OR RECEIVED	-0-	DIESEL OIL — ON HAND	1225
	ON HAND	750	RECEIVED	1223
	CONSUMED	30	CONSUMED	2

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

REMARKS

1200-1600 WATCH
Port Relief Watch. Mach'y in Oper. - No. 1 Boiler, F.O. Blower, F.O. Pump (Steam) & Motor F.O. Service Pump, Inst. Out, No. 1-2 S.D. Gens, Condenser with No. 1 Air Ejector and Main Cond. Pump, & Lub. Oil Purifier, No. 2 F.O.S. Pump, No. 1 F.W. Pump, Port Air Compr., No. 2 Furnace F.W. Stop. No Evap. Changes. F.W. Dist. to SP out. Pilot to Port. Found, finally a grease gun and greased No. 1 F.W. Pump. Changed and cleaned burners and F.O. Disch. & Suct. strainers. Bilges safe. Stm on Setts.

Oiler - Wenner Fwt - McGinnis Rfc - Beam WATCH ENGR'S SIGNATURE [signature] R/E

1600-2000 WATCH
Port Relief Watch. Mach'y same. Mach. routine checks of mach'y and spaces. Changed and cleaned burners and str. Bilges satisfactory.

Oiler - Lovell Fwt - Watkins Rfc - Marvin WATCH ENGR'S SIGNATURE [signature] R/E

2000-2400 WATCH
Port Relief Watch. No mach'y changes. Routine checks of mach'y and spaces. Need adjustment on Evap float air valve. Sticks occasionally - then does not fill without hand tripping. Changed and cleaned disch. str. and burners. Pumped out bilge down, also Evap. float. Complied with S/C & N/C. Condition Normal.

Oiler - Lovell Fwt - Watkins Rfc - Marvin WATCH ENGR'S SIGNATURE [signature] R/E

2400-0400 WATCH
Blew Tubes #1 Boiler. Blew 3 times #8 to #1 Soot Blower + 4 times #1 to #8 Soot Blower A total of 7 blows per element.
NOTE #4 Element Scavinging Air line Blew out.

Oiler Stand-by for Port Boiler, Selfer Gentile WATCH ENGR'S SIGNATURE [signature] F/E

0400-0800 WATCH
Plant Normal As Before
Bilges At Safe Level
Routine inspections & maint. for mach. spaces made at regular intervals

Watch As Before WATCH ENGR'S SIGNATURE [signature] F/E

0800-1200 WATCH
Port watch machinery in operation As Before. Cleaned + cleaned F.O. Burner + Disch Strainer. Lit. off Port Boiler for drying sac. same. Crew working on soot blower + cleaning + painting Eng. Room.

WATCH ENGR'S SIGNATURE [signature]

CHIEF ENGINEER

BOILER TEST READINGS

STBD	PORT
HOURS 971	HOURS Sac.
AKL 4.34	
T-[illegible]/3.43	T-[illegible]
SAL. 2.07	SAL.
PHOS. 35	PHOS.
R.ph 11	R.ph
Sc 3 28	

CHIEF ENGR'S SIGNATURE [signature]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
JOHN POPE TAP-110		AT NSC OAKLAND		P2-S2-R2	3/27-28/67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1138 4270	1138 4530	1138 5230	1138 5650	1138 6090	1138 6560
F.O. CONSUMED	400	460	400	420	440	470
MACHINERY PARTICULARS – PRESSURES: THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
ACR. VACUUM	29"	29"	29"	29"	29	29"
L.O. TO TURBINES						
AUX. STEAM	125	125	125	175	145	145
BACK PRESSURE	9	9	9	9	9	9
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
TEMPERATURES: STEAM AT THROTTLE						
ACR. L.P. EXHAUST	97/99	95/95	95/95	99/100	96/95	97/99
CONDENSATE						
CIRC. WATER IN	61	60	60	60	60	60
ACR. CIRC. WATER OUT	67/70	70/65	70/65	70/65	70/64	70/66
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) – TEMPERATURES (CONT'D): HOTTEST GEAR BEARING FORWARD							
HOTTEST GEAR BEARING AFT							
AUX. COND. CONDENSATE		87	87	87	88	88	88
1ST STAGE FEED WATER HEATER		112	112	112	114	114	113
D. C. FEED WATER HEATER		240	240	240	240	240	240
3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS – TEMPERATURES: SUPER HEAT	P						
	S	630	620	650	650	650	620
F.O. TO BURNERS		190	190	190	190	190	190
PRESSURE AIR TO FURNACE	P						
	S	1.4	1.6	2.0	1.4	1.4	1.4
F.O. TEMP. IN SETTLING TANKS	P	90	90	90	85	85	85
	S	105	115	112	105	110	105
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		275	280	285	280	280	285
PRESSURES: F. O. BACK PRESSURE							
MAIN STEAM		440	440	440	440	440	440
F.O. TO BURNERS		140	130	130	140	140	145
MISCELLANEOUS: MAIN COND. SALINITY		.14	.02	.03	.04	.04	
ENGINE ROOM TEMPERATURE		75	72	71	69	68	70
FIRE ROOM TEMPERATURE							
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
	S	2	2	2	2	2	2
BURNER TIP SIZE	P						
	S	53/60	53/60	53/60	53/60	53/60	53/60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	630	9	134	125		62	850	850	240
	2	1200	440	630	7	127	112		63	800	800	240
1600 TO 2000	1	1200	440	620	9	120	110		62	800	700	240
	2	1200	440	620	7	122	110		62	800	700	240
2000 TO 2400	1	1200	440	650	9	120	110		62	800	700	240
	2	1200	440	650	7	122	110		62	800	700	240
2400 TO 0400	1	1200	440	650	9	120	110		62	800	800	240
	2	1200	440	650	7	122	110		62	650	650	240
0400 TO 0800	1	1200	440	650	9	118	110		62	1000	1000	240
	2	1200	440	650	7	123	109		62	350	850	240
0800 TO 1200	1	1200	440		9	119	110		62	700	700	240
	2	1200	440		7	121	110		62	850	850	240

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	11386560	BOILER WATER: ON HAND AT START OF DAY	180
	METER PREVIOUS NOON	11384070	EVAPORATED OR RECEIVED	20
	CONSUMED BY METER	2490	ON HAND	185
	ON HAND AT START OF DAY	3,898	CONSUMED	15
	RECEIVED DURING DAY	-0-	LUBE OIL: ON HAND AT START OF DAY	2130
	EXPENDED DURING DAY	50	RECEIVED	-0-
	REMAINING ON BOARD	3,848	ON HAND	2125
DOMESTIC WATER	ON HAND AT START OF DAY	750	CONSUMED	5
	EVAPORATED OR RECEIVED	242	DIESEL OIL: ON HAND	1223
	ON HAND	942	RECEIVED	1220
	CONSUMED	50	CONSUMED	3

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

REMARKS

1200-1600 WATCH
Port watch machinery In operation #1 Boiler & #2 F.D. Blower #1 Elect. Feed Pump. #1 F.O. Pump #1 Ind. Cond. Pump #1 + #2 S.S. Cir. Aux. Circ. Pump. Air Comp. #1 Fire Pump. Oven Cleaning + Painting Eng. Rm.

WATCH ENGR'S SIGNATURE- L. Harris

1600-2000 WATCH
PORT RELIEF WATCH — ORDERS ARE: — "DO NOT PUMP #1 ER TONIGHT!!" - DEMP.
Checked machin. and spaces as lett. Changed and cleaned burners & str. Filling D.B. Reserve Feed Tank. 1830 Gang way Flood Light started at socket & plug. Fuses out, at affected socket box FC 158 P. Rigging another light to other socket box. Also, no keys tonight again.

Oiler - Lovell Fwt - Watkins RR - Marvin WATCH ENGR'S SIGNATURE- [illegible] N/E

2000-2400 WATCH
PORT RELIEF WATCH. No changes in machy. Checked machy. and spaces. Changed and cleaned burners and F.O. Disco Str. Filling Res'd Tank. Bilges not pumped as per orders — 2' now in Stbd Bilge. Compared w/S.C. F.N.C. F.W. Suct - 3 Stbd. List 1° Stbd.
2300 Inbd. Sett. 2'-6". Changed to Outbd.

Oiler - Lovell Fwt - Watkins RR - Marvin WATCH ENGR'S SIGNATURE- [illegible] N/E

2400-0400 WATCH
ROUTINE PORT WATCH
DID NOT PUMP BILGES
ADDED POT WATER TO #3 PORT TO TAKE STBD LIST OFF SHIP

Oiler Stall - Wtr - Fwt Bstlr Rear Gentile WATCH ENGR'S SIGNATURE- [illegible]

0400-0800 WATCH
ROUTINE PORT WATCH
ROUTINE INSPECTIONS OF MN + AUX MACH SPACES MADE AT REGULAR INTERVALS.
BILGES AT SAFE LEVEL. TRIED TO PUMP SHAFT ALLEY BUT AIR ACTUATED VALVE FROM #2 PUMP TO BILGE MAIN LEAKS COMPRESSED AIR TO SUCTION LINE THRU BY LOOSING PUMP SUCTION.

WATCH AS BEFORE WATCH ENGR'S SIGNATURE- [illegible]

0800-1200 WATCH
Port watch machinery In operation As Before. Changed & cleaned F.O. Burner & strainer. Pumped shaft Alley Bilges, #1 L.O. Pump off Jacked over Stbd shaft for M+R To Check #13 spring bearing. Added compound To stbd Bilge.

WATCH ENGR'S SIGNATURE- L. Harris

CHIEF ENGINEER

BOILER WATER READINGS

STBD	PORT
HOURS 995	Sec. 0
ALK 8.76	
T. SOL 11.68	
SOL. 2.07	
[illegible] 40	
[illegible] 10	
SO_4 40	SO_3
PH Cond. 7.6	

CHIEF ENGR'S SIGNATURE- [illegible]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
John Pope TAP-110		AT NSC OAKLAND		P2-S2-R2	3-28/29-67

	WATCH					
	1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1138 6990	1138 7360	1138 7780	1138 8200	1138 8610	1138 9140
F.O. CONSUMED	430	370	420	420	410	470
PRESSURES: THROTTLE						
PRESSURES: H.P. AHEAD						
PRESSURES: L.P. AHEAD						
PRESSURES: AUX VACUUM	29"	29"	29"	29"	29"	29"
PRESSURES: L.O. TO TURBINES						
PRESSURES: AUX. STEAM	145	145	145	145	145	145
PRESSURES: BACK PRESSURE	10	10	~~10~~ 9.5	10	10	10
PRESSURES: GLAND STEAM						
PRESSURES: H.P. BLEEDER						
PRESSURES: I.P. BLEEDER						
PRESSURES: L.P. BLEEDER						
TEMPERATURES: STEAM AT THROTTLE						
TEMPERATURES: AUX L.P. EXHAUST	99/97	90/90	90/90	98/100	94/98	97/92
TEMPERATURES: CONDENSATE						
TEMPERATURES: CIRC. WATER IN	60	60	60	60	60	59
TEMPERATURES: AUX. CIRC. WATER OUT	70/64	68/62	68/66	68/64	68/64	68/64
TEMPERATURES: L.O. TO COOLERS						
TEMPERATURES: L.O. FROM COOLERS						
TEMPERATURES: TEMPERATURE THRUST BEARING						
TEMPERATURES: FORWARD H.P. ROTOR BEARING						
TEMPERATURES: AFT. H.P. ROTOR BEARING						
TEMPERATURES: FORWARD L.P. ROTOR BEARING						
TEMPERATURES: AFT. L.P. ROTOR BEARING						

		WATCH					
		1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) TEMPERATURES (CONT'D): HOTTEST GEAR BEARING FORWARD							
MACH. PARTICULARS (CONT'D) TEMPERATURES (CONT'D): HOTTEST GEAR BEARING AFT							
MACH. PARTICULARS (CONT'D) TEMPERATURES (CONT'D): AUX. COND. CONDENSATE			85	85	85	85	87
MACH. PARTICULARS (CONT'D) TEMPERATURES (CONT'D): 1ST STAGE FEED WATER HEATER		113	108	112	112	114	112
MACH. PARTICULARS (CONT'D) TEMPERATURES (CONT'D): D. C. FEED WATER HEATER		240	240	240	240	240	238
MACH. PARTICULARS (CONT'D) TEMPERATURES (CONT'D): 3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS TEMPERATURES: SUPER HEAT	P						
BOILER PARTICULARS TEMPERATURES: SUPER HEAT	S	610	600	630	650	640	640
BOILER PARTICULARS TEMPERATURES: F.O. TO BURNERS		190	190	190	190	190	190
BOILER PARTICULARS TEMPERATURES: AIR TO FURNACE	P						
BOILER PARTICULARS TEMPERATURES: AIR TO FURNACE	S	1.2	2.0	1.6	1.4	1.4	1.4
BOILER PARTICULARS TEMPERATURES: F.O. TEMP. IN SETTLING TANKS	P	85	85	85	80	80	80
BOILER PARTICULARS TEMPERATURES: F.O. TEMP. IN SETTLING TANKS	S	100	100	100	95	90	90
BOILER PARTICULARS TEMPERATURES: PORT BOILER UPTAKE							
BOILER PARTICULARS TEMPERATURES: STBD. BOILER UPTAKE		285	290	290	290	285	295
BOILER PARTICULARS PRESSURES: F. D. BACK PRESSURE							
BOILER PARTICULARS PRESSURES: MAIN STEAM		440	440	440	440	440	440
BOILER PARTICULARS PRESSURES: F.O. TO BURNERS		140	130	140	140	140	150
MISCELLANEOUS: MAIN COND. SALINITY			.02	.01	.01	.01	.1
MISCELLANEOUS: ENGINE ROOM TEMPERATURE		68	70	67	65	63	68
MISCELLANEOUS: FIRE ROOM TEMPERATURE							
MISCELLANEOUS: NOZZLES IN USE							
MISCELLANEOUS: NO. OF BURNERS IN USE	P						
MISCELLANEOUS: NO. OF BURNERS IN USE	S	2	2	2	2	2	2
MISCELLANEOUS: BURNER TIP SIZE	P						
MISCELLANEOUS: BURNER TIP SIZE	S	53/60	53/60	53/60	53/60	53/60	53/60
MISCELLANEOUS: CO_2 % PORT BOILER							
MISCELLANEOUS: CO_2 % STBD. BOILER							
MISCELLANEOUS: OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	610	9	119	110		62	850	850	240
	2	1200	440	610	7	126	110		62	800	800	240
1600 TO 2000	1	1200	440	600	9	120	110		62	700	700	240
	2	1200	440	600	7	124	110		62	800	800	240
2000 TO 2400	1	1200	440	630	9	120	110		62	800	800	240
	2	1200	440	630	7	124	110		62	700	700	240
2400 TO 0400	1	1200	440	650	9	122	112		62	1100	1100	240
	2	1200	440	650	7	124	108		62	700	700	240
0400 TO 0800	1	1200	440	640	9	120	110		62	900	900	240
	2	1200	440	640	7	124	108		62	900	900	240
0800 TO 1200	1	1200	440	640	9	119	110		62	700	700	240
	2	1200	440	640	7	125	110		62	850	850	240

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	11389140	BOILER WATER: ON HAND AT START OF DAY	185
FUEL OIL	METER PREVIOUS NOON	11366660	BOILER WATER: EVAPORATED OR RECEIVED	15
FUEL OIL	CONSUMED BY METER	2580	BOILER WATER: ON HAND	185
FUEL OIL	ON HAND AT START OF DAY	3848	BOILER WATER: CONSUMED	15
FUEL OIL	RECEIVED DURING DAY	-0-	LUBE OIL: ON HAND AT START OF DAY	2125
FUEL OIL	EXPENDED DURING DAY	50	LUBE OIL: RECEIVED	-0-
FUEL OIL	REMAINING ON BOARD	3798	LUBE OIL: ON HAND	2120
DOMESTIC WATER	ON HAND AT START OF DAY	942	LUBE OIL: CONSUMED	5
DOMESTIC WATER	EVAPORATED OR RECEIVED	-0-	DIESEL OIL: ON HAND	1220
DOMESTIC WATER	ON HAND	800	DIESEL OIL: RECEIVED	1218
DOMESTIC WATER	CONSUMED	42	DIESEL OIL: CONSUMED	2

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		PROPELLER SLIP (%)	
DETENTION TIME		BBL FUEL-MI	
TOTAL REVOLUTIONS		WIND DIRECTION	
AVERAGE R.P.M.		STATE OF SEA	
TOTAL MILES BY ENGINE		STATE OF WEATHER	
TOTAL MILES BY OBSERVATION			

REMARKS

1200-1600 WATCH Port watch machinery In operation #1 Boiler + F.D. Blower #1 Elect. Feed Pump. #1 F.O. Pump #1 + #2 S.S. Gen's. #1 Main Cond Pump. Aux. Circ. Pump. #1 Fire Pump AIR Comp. F.W. Pump, Pumped F.O. Sett. from #6 Deep TK.

WATCH ENGR'S SIGNATURE- L. Harris

1600-2000 WATCH PORT RELIEF WATCH. Machy as above and as left. Checked machy and spaces 1600 F.W. Suct. to P. list 20° P. Plumber filling 3.3 from shore. 1745 Ship shifted to Stbd. Secured F.W. on Deck. F.W. Suct. to Stbd. Changed and cleaned burners and Str. 2½' Water in Stbd. bilge. N/C - No pumping. 1930 Put heat to Port Gang's Quarters by request. Return trap stepped up.

Oiler - Lovell FWT - Watkins Rfr - Marvin WATCH ENGR'S SIGNATURE- [illegible] R/E

2000-2400 WATCH PORT RELIEF WATCH. No changes in machy. Routine checks of machy and spaces. Routine changing of burners and cleaning, also dispch str. Complied with S/O & N/O 2230 Complaint again - no heat to Port Gang. Insp'ed working on Deck. Told R/E to stop blower, and secure steam; leave door open; take heat from passageway.

Oiler - Lovell FWT - Watkins Rfr - Marvin WATCH ENGR'S SIGNATURE- [illegible] R/E

2400-0400 WATCH
Routine Port watch
Bilges at safe level except for shaft alley on account to rust spots
Complied with night + standing orders.
Took on water to #3 Port Tank. to trim ship.

Chief Stationary Boiler Water Gauge WATCH ENGR'S SIGNATURE- [illegible]

0400-0800 WATCH
Unable to read shaft alley bilges due to inoperative bilge stop air actuated suction valve.
Routine in bilges bilges dry but did not pump bilges due to high coolers.

WATCH AS BEFORE WATCH ENGR'S SIGNATURE- [illegible]

0800-1200 WATCH Port watch machinery in operation as before changed + cleaned F.O. Burner + strainer. Pumped shaft Alley Bilges. Annual Inspection of machinery + spaces by Port Navy Captain. Sec. Fire + sanitary system @ 0930 Secure on line @ 1100.

WATCH ENGR'S SIGNATURE- L. Harris

CHIEF ENGINEER

BOILER WATER READINGS
STEAM [illegible]
HOURS 1013 [illegible] S.C. 0
ALK 8.76
CHLO 11.68
CAL. 2.07
PHOS. 40 PHOS.
High 10 [illegible]
SO3 35 SO3
1st Pt. Cond. 8.0

CHIEF ENGR'S SIGNATURE-

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
John Pope TAP-110		At Sea Oakland		P2-S2-R2	3-29/30/67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
~~DETENTION~~ TIME	Port Boiler reading low leaving			0259	770	
REVOLUTION COUNTER (END OF WATCH)	Not before		600			
TOTAL REVOLUTIONS (FOR WATCH)	Since tonight 100 gals. more by meter. Rapid only 210 actually. Need to check fuel meter as it is gaining or leaking. Secured outboard line valve.					
AVERAGE RPM						
F.O. METER (END OF WATCH)	1138 9580	1139 0090	1139 0530	1139 0960	1139 1370	1139 1810
F.O. CONSUMED	440	510	440	420	420	440
MACHINERY PARTICULARS — PRESSURES — THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
VACUUM	29"	29"	29"	29"	29"	28.5"
L.O. TO TURBINES						
AUX. STEAM	145	145	145	145	145	145
BACK PRESSURE	10	10	10	10	10	10
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
TEMPERATURES — STEAM AT THROTTLE						
AUX L.P. EXHAUST	97/94	92/92	90/90	89/86	89/86	103
CONDENSATE						
CIRC. WATER IN	60	60	60	65	60	60
AUX CIRC. WATER OUT	69/65	65/62	66/62	[illegible]	66/62	70
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) TEMPERATURES (CONT'D)	HOTTEST GEAR BEARING FORWARD						
	HOTTEST GEAR BEARING AFT						
	AUX. COND. CONDENSATE	88	86	85	87	87	87
	1ST STAGE FEED WATER HEATER	113	112	110	112	112	128
	O. C. FEED WATER HEATER	240	220	220	240	240	238
	3RD STAGE FEED WATER HEATER						
BOILER PARTICULARS TEMPERATURES — SUPER HEAT P							
SUPER HEAT S		630	635	600	600	600	640
F.O. TO BURNERS		190	190	190	190	190	190
AIR TO FURNACE P							
AIR TO FURNACE S		1.5	1.6	2.0	2.0	2.0	1.5
F.O. TEMP. IN SETTLING TANKS P		110	100	100	95	95	95
F.O. TEMP. IN SETTLING TANKS S		100	115	110	110	110	110
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		305	290	295	295	300	300
PRESSURES — F. O. BACK PRESSURE							
MAIN STEAM		440	440	440	440	440	440
F.O. TO BURNERS		160	140	130	130	140	
MISCELLANEOUS — MAIN COND. SALINITY		.1	.01	.01	.01	.01	.01
ENGINE ROOM TEMPERATURE		70	70	67	65	66	66
FIRE ROOM TEMPERATURE							
NOZZLES IN USE							
NO. OF BURNERS IN USE P							
NO. OF BURNERS IN USE S		3	2	2	2	2	2
BURNER TIP SIZE P							
BURNER TIP SIZE S		53/60	53/60	53/60	53/60	53/60	53/60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	630	9	120	110		62	850	850	240
	2	1200	440	630	7	125	110		62	800	800	240
1600 TO 2000	1	1200	440	635	9	120	110		62	800	800	240
	2	1200	440	635	7	120	110		62	800	800	240
2000 TO 2400	1	1200	440	600	9	120	110		62	800	800	240
	2	1200	440	600	7	120	110		62	800	800	240
2400 TO 0400	1	1200	440	600	9	120	110		62	850	850	240
	2	1200	440	600	7	125	110		62	900	900	240
0400 TO 0800	1	1200	440	600	9	120	110		62	850	800	240
	2	1200	440	600	7	122	110		62	900	900	240
0800 TO 1200	1	1200	440	600	9	119	110		62	1400	1350	240

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	1139 1870	BOILER WATER	ON HAND AT START OF DAY	185
	METER PREVIOUS NOON	1138 9140		EVAPORATED OR RECEIVED	25
	CONSUMED BY METER	2730		ON HAND	195
	ON HAND AT START OF DAY	3758		CONSUMED	15
	RECEIVED DURING DAY	-0-	LUBE OIL	ON HAND AT START OF DAY	2120
	EXPENDED DURING DAY	55		RECEIVED	-0-
	REMAINING ON BOARD	3743		ON HAND	2115
DOMESTIC WATER	ON HAND AT START OF DAY	900		CONSUMED	5
	EVAPORATED OR RECEIVED	-0-	DIESEL OIL	ON HAND	1215
	ON HAND	880		RECEIVED	1215
	CONSUMED	20		CONSUMED	3

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

REMARKS

1200-1600 WATCH Port watch machinery in operation ~~as before~~ #1 Boiler & F.D. Blower #1 Elect. Feed Pump #1 F.O. Pump #1 & #2 S.S. Gen's #1 main Cond. Pump #1 Fire Pump Aux. Circ. Pump Air Comp. F.W. Pump.

WATCH ENGR'S SIGNATURE- L. Hurns

1600-2000 WATCH Port Relief Watch. Mach'y as before. #1 Evap in service. Routine checks of machy and spaces. Changed and cleaned burners and F.O. Disch. Str. 1800 Mn Galley 3 sec Faucet over sink stripped open. Secured valves underneath. Telephone out of ringing order. F.W. Suct. 3P List 15° P. Cutbd Sett. Did not pump bilge as per N/C.

Chief - Lovell Fwt - Watkins RPF - Marvin WATCH ENGR'S SIGNATURE- [illegible] RPF

2000-2400 WATCH Port Relief Watch. No changes in machy. Routine checks made. Changed and cleaned burners and disch str. Did NOT pump bilge as per N/C. Complied with S/C & N/C. Condition Normal.

Chief - Lovell Fwt - Watkins RPF - Marvin WATCH ENGR'S SIGNATURE- [illegible] RPF

2400-0400 WATCH
ROUTINE PORT WATCH
BUSES AT SAFE LEVEL
ROUTINE INSPECTIONS OF AUX. + MAIN MACH. SPACES
MADE AT REGULAR INTERVALS.

Chief Stallings - Thfwt Butler RPF Rentil WATCH ENGR'S SIGNATURE- [illegible]

0400-0800 WATCH
CHANGED TO #3 F.O. SETTLER @ 0500
COMPLIED WITH NIGHT + STANDING ORDERS.
MACHINERY AS BEFORE
Changed & cleaned Burners

WATCH AS BEFORE WATCH ENGR'S SIGNATURE- [illegible]

0800-1200 WATCH Port watch machinery in operation as before except Sec #2 M+R Room Generator. Changed & cleaned F.O. Burners + Disc. Strainers.

WATCH ENGR'S SIGNATURE- L. Hurns

CHIEF ENGINEER

PORTER WATER BRADITHS

[illegible] 1013
[illegible] 8.76
[illegible] 11.68
[illegible] 2.49
[illegible] .40
[illegible] 10
[illegible] 3.5
Fwd.

CHIEF ENGR'S SIGNATURE- [illegible]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
John H. Pope TAP-110		At sea Oakland		P2-S2-K2	3-30/31-67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1139 2230	1139 2620	1139 3020	1139 3420	1139 3820	1139 4280
F.O. CONSUMED	420	390	400	400	400	440
MACHINERY PARTICULARS — PRESSURES — THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
VACUUM	29	29	29	29	29	29
L.O. TO TURBINES						
AUX. STEAM	140	150	150	150	150	150
BACK PRESSURE	10	10	9	9	9	10
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
TEMPERATURES — STEAM AT THROTTLE						
EXHAUST	112	90 / 140	95 / 140	88 / 140	95 / 135	94 / 135
CONDENSATE						
CIRC. WATER IN	41	60	60	60	60	58
CIRC. WATER OUT	72	68 / 64	68 / 64	67 / 64	67 / 64	68 / 62
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) — TEMPERATURES (CONT'D) — HOTTEST GEAR BEARING FORWARD							
HOTTEST GEAR BEARING AFT							
AUX. COND. CONDENSATE		103	81	87	87	87	88
1ST STAGE FEED WATER HEATER		132	102	106	104	100	102
D. C. FEED WATER HEATER		240	240	240	240	240	240
3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS — TEMPERATURES — SUPER HEAT	P						
	S	630	625	620	600	600	650
F.O. TO BURNERS		190	190	190	190	190	190
AIR TO FURNACE	P						
	S	15	20	20	18	15	15
F.O. TEMP. IN SETTLING TANKS	P	93	85	85	85	85	85
	S	110	95	100	100	100	100
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		292	295	290	265	305	285
PRESSURES — F. O. BACK PRESSURE							
MAIN STEAM		420	440	440	440	440	440
F.O. TO BURNERS			120	130	130	130	
MISCELLANEOUS — MAIN COND. SALINITY			.08	.07	.07	.07	.05
ENGINE ROOM TEMPERATURE		64	69	69	67	67	68
FIRE ROOM TEMPERATURE							
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
	S	2	2	2	1	1	1
BURNER TIP SIZE	P						
	S	53/60	53/60	53/60	53/60	53/60	53/60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	650	9	120	110		62	1500	1480	24
1600 TO 2000	1	1200	440	645	9	120	110		62	650	650	240
	2	1200	440	645	9	120	110		62	650	650	240
2000 TO 2400	1	1200	440	640	9	120	110		62	700	700	240
	2	1200	440	640	9	120	110		62	700	700	240
2400 TO 0400	[illegible]											
0400 TO 0800	[illegible]											
	2	[illegible]										
0800 TO 1200	1	[illegible]			9	119	110		62	[illegible]	[illegible]	240
	2	1200	[illegible]	[illegible]	9	124	110		62	[illegible]	[illegible]	[illegible]

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	1139 4280	BOILER WATER	ON HAND AT START OF DAY	195
	METER PREVIOUS NOON	1139 1870		EVAPORATED OR RECEIVED	15
	CONSUMED BY METER	2410		ON HAND	195
	ON HAND AT START OF DAY	3,743		CONSUMED	15
	RECEIVED DURING DAY	-0-	LUBE OIL	ON HAND AT START OF DAY	2115
	EXPENDED DURING DAY	50		RECEIVED	-0-
	REMAINING ON BOARD	3,693		ON HAND	2110
DOMESTIC WATER	ON HAND AT START OF DAY	850		CONSUMED	5
	EVAPORATED OR RECEIVED	165	DIESEL OIL	ON HAND	1215
	ON HAND	1000		RECEIVED	1213
	CONSUMED	45		CONSUMED	2

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
[illegible]					[illegible]

SUMMARY

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

REMARKS

1200-1600 WATCH

Put total machinery In operation #1 Boiler + FD Blower #1 Elect. Feed Pump #1 Fo Pump #1 S.S. Cond. #1 main cond. Pump [illegible] Pumped Sett. from Aft Eng. Room Fo. Sett. Pumped shaft Alley Started #2 S.S. Cond. Gauge To Check Hose Cover. + Tested same, Up load speed 1230 RPM overspeed 1340 RPM. Same on line

WATCH ENGR'S SIGNATURE- [illegible]

1600-2000 WATCH

Port Relief Watch Machy as above with #1 Evap. in service. Standby Evap. Routine checks of machy. and spaces. Changed and cleaned burners and strainer, F.O. Disch. Set 150# Stg. to 150#. Gov. #2 Gov. functioning properly. Raised gland seal to keep 24" vacuum. Condition Normal.
Need some scraper paper in this E.R. 1930 Mate notified - "Loading Stores" Need Elec. Found Brooks (Elec.) aware and standing by.

Oiler - Lovell FNT - Watkins RFT - Marvin WATCH ENGR'S SIGNATURE- [illegible] RFE

2000-2400 WATCH

Port Relief Watch Machy same. Routine checks of machy and spaces. Changed and cleaned burners and str. Bilge pump tagged and left on board, so did NOT pump bilge. Loading stores. Elec available. Leak in AC unit at 3-60 & 3-62 Troop Comp. Mate notified - did not check - reported not bad. FN Sect 38 Complied with S/C & N/C. Condition Normal.

Oiler - Lovell FNT - Watkins RFT - Marvin WATCH ENGR'S SIGNATURE- [illegible] RFE

2400-0400 WATCH

[illegible]

WATCH ENGR'S SIGNATURE- [illegible]

0400-0800 WATCH

[illegible]

WATCH ENGR'S SIGNATURE- [illegible]

0800-1200 WATCH

[illegible]

WATCH ENGR'S SIGNATURE- [illegible]

CHIEF ENGINEER

[illegible]

CHIEF ENGR'S SIGNATURE- [illegible]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
[illegible] TAP-110		[illegible]		P-32-82	[illegible]

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1139 4920	1139 5100	1139 5490	1139 5860	1139 6230	1139 6690
F.O. CONSUMED	440	380	370	370	370	440
MACHINERY PARTICULARS — PRESSURES — THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
~~L.P.~~ AUX. VACUUM	29"	29"	29"	29"	29"	29"
L.O. TO TURBINES						
AUX. STEAM	150	150	150	150	150	150
BACK PRESSURE	[illegible]	10	10	10	10	10
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
TEMPERATURES — STEAM AT THROTTLE						
~~L.P.~~ AUX. EXHAUST	90/90	70/70	90/90	[illegible]	[illegible]	[illegible]
CONDENSATE						
CIRC. WATER IN	58	60	58	57	57	58
~~L.P.~~ AUX. CIRC. WATER OUT	[illegible]	70/65	56/63	66/[illegible]	[illegible]	72/[illegible]
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) — TEMPERATURES (CONT'D) — HOTTEST GEAR BEARING FORWARD							
HOTTEST GEAR BEARING AFT							
AUX. COND. CONDENSATE		87	88	87	87	88	87
1ST STAGE FEED WATER HEATER		100	108	102	110	102	112
D. C. FEED WATER HEATER		230	242	240	270	290	290
3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS — TEMPERATURES — SUPER HEAT	P						
	S	630	650	630	600	600	630
F.O. TO BURNERS		190	190	190	190	190	190
AIR TO FURNACE	P						
	S	1.5	2.0	2.0	1.5	1.5	1.5
F.O. TEMP. IN SETTLING TANKS	P	90	90	95	95	95	90
	S	115	115	115	110	110	110
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		285	285	280	275	275	270
PRESSURES — F. O. BACK PRESSURE							
MAIN STEAM		440	440	440	440	440	440
F.O. TO BURNERS		150	150	130	130	130	130
MISCELLANEOUS — MAIN CDNO. SALINITY			0.1	.09	.09	.09	.09
ENGINE ROOM TEMPERATURE		68	65	66	67	67	68
FIRE ROOM TEMPERATURE							
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
	S	2	2	2	2	2	2
BURNER TIP SIZE	P						
	S	58/60	58/60	58/60	58/60	58/60	58/60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	630	9	120	110	[illegible]	62	800	800	240
	2	1200	440	630	7	125	110		62	800	800	240
1600 TO 2000	1	1200	440	650	9	120	110		62	800	800	240
	2	1200	440	650	7	120	110		62	800	800	240
2000 TO 2400	1	1200	440	630	9	120	110		62	700	700	240
	2	1200	440	630	7	120	110		62	700	700	240
2400 TO 0400	1	120	470	600	9	120	110		62	550	550	240
	2	120	470	600	7	122	110		62	750	750	240
0400 TO 0800	1	120	490	600	9	120	110		62	650	650	240
	2	120	490	600	7	124	110		62	650	650	240
0800 TO 1200	1	120	440	630		118	110		62	1350	1350	240
	2	120	440	630	-	122	110		62	—	—	240

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	1139669 0	BOILER WATER — ON HAND AT START OF DAY	195
	METER PREVIOUS NOON	1139428 0	EVAPORATED OR RECEIVED	15
	CONSUMED BY METER	2410	ON HAND	195
	ON HAND AT START OF DAY	3693	CONSUMED	15
	RECEIVED DURING DAY	7234	LUBE OIL — ON HAND AT START OF DAY	2110
	EXPENDED DURING DAY	57	RECEIVED	-0-
	REMAINING ON BOARD	10,141	ON HAND	2105
DOMESTIC WATER	ON HAND AT START OF DAY	1000	CONSUMED	5
	EVAPORATED OR RECEIVED	-0-	DIESEL OIL — ON HAND	1213
	ON HAND	980	RECEIVED	1210
	CONSUMED	20	CONSUMED	3

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
2					

SUMMARY

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

REMARKS

1200-1600 WATCH
[illegible]

WATCH ENGR'S SIGNATURE- [illegible]

1600-2000 WATCH
Port Relief Watch. Machy as before with MU Evap filling Reserve Feed Tk. D.B. Checked machy and spaces. Changed burners and F.O. Disch. Str & cleaned. Loading stores. Elec Gutierrez available. Bilge satisfactory. Condition Normal. FW. Suct No 3 & F.O. Suct inbd.

Oiler - Lovell FWT - Watkins RPT - Marvin

Elect on watch Mr. Gutierrez

WATCH ENGR'S SIGNATURE- [illegible] RPE

2000-2400 WATCH
Port Relief Watch. No changes in machy. Filling Res Fl Tank w/o MU Evap. Routine checks of machy and spaces. Changed and cleaned burners and F.O. Disch. Str. Pumped ER bilge down. Complied with S/C & N/C. Condition Normal. Oiler cleaned up oil on and around Gens as per N/C. Loading stores until 0400.

Oiler - Lovell FWT - Watkins RPT - Marvin

WATCH ENGR'S SIGNATURE- [illegible] RPE

2400-0400 WATCH
Routine Port Watch
Bilges OK
Changed & cleaned F.O. strainers
Added 1 gal lube oil to #1 MU feed pump

WATCH ENGR'S SIGNATURE- [illegible]

0400-0800 WATCH
As before
Routine Port Watch
Bilges OK
Changed & cleaned F.O. strainers
Added 1 gal lube oil to #1 MU feed pump

WATCH ENGR'S SIGNATURE- [illegible]

0800-1200 WATCH
As before
Routine Port Watch
Bilges OK
#2 Gen [illegible] @ 1010
Both Dist [illegible]

WATCH ENGR'S SIGNATURE- [illegible]

CHIEF ENGINEER

BOILER WATER READINGS

STB'D	PORT
HOURS	HOURS
AKL	AKL
T-AKL	T-AKL
SAL.	SAL.
PPOS.	PPOS.
ph	R.ph

CHIEF ENGR'S SIGNATURE- [illegible]

A 6025

USNS	VOYAGE NO.	FROM	TO	TYPE OF VESSEL	DATE
GEN. JOHN POPE MAP-110		AT NSC OAKLAND, CA		P2S2R2	4-12-67

MACHINERY PARTICULARS

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1139 7000	1139 7370	1139 7740	1139 8110	1139 8470	1139 8850
F.O. CONSUMED	410	370	370	370	350	380
PRESSURES — THROTTLE						
PRESSURES — H.P. AHEAD						
PRESSURES — L.P. AHEAD						
PRESSURES — AUX. VACUUM	28.5"	28.5"	28.5"	28.5"	28.5"	28.5"
PRESSURES — L.O. TO TURBINES						
PRESSURES — AUX. STEAM	150	150	150	150	150	150
PRESSURES — BACK PRESSURE	10	10	10	10	10	10
PRESSURES — GLAND STEAM						
PRESSURES — H.P. BLEEDER						
PRESSURES — I.P. BLEEDER						
PRESSURES — L.P. BLEEDER						
TEMPERATURES — STEAM AT THROTTLE						
TEMPERATURES — AUX. L.P. EXHAUST	103/100	103/99	103/100	/100	/99	/100
TEMPERATURES — CONDENSATE						
TEMPERATURES — CIRC. WATER IN	58	58	58			
TEMPERATURES — AUX. CIRC. WATER OUT	70/58	70/58	70/58	/58	/58	/58
TEMPERATURES — L.O. TO COOLERS						
TEMPERATURES — L.O. FROM COOLERS						
TEMPERATURES — TEMPERATURE THRUST BEARING						
TEMPERATURES — FORWARD H.P. ROTOR BEARING						
TEMPERATURES — AFT. H.P. ROTOR BEARING						
TEMPERATURES — FORWARD L.P. ROTOR BEARING						
TEMPERATURES — AFT. L.P. ROTOR BEARING						

MACH. PARTICULARS (CONT'D) — TEMPERATURES (CONT'D)

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
HOTTEST GEAR BEARING FORWARD						
HOTTEST GEAR BEARING AFT						
AUX. COND. CONDENSATE	100	98	98	98	98	100
1ST STAGE FEED WATER HEATER	119	112	116	114	114	115
D. C. FEED WATER HEATER	220	220	220	270	270	270
3RD STAGE FEED WATER HEATER						

BOILER PARTICULARS

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
TEMPERATURES — SUPER HEAT	P						
TEMPERATURES — SUPER HEAT	S	650	620	620	610	640	640
TEMPERATURES — F.D. TO BURNERS		190	190	190	195	190	195
TEMPERATURES — AIR TO FURNACE	P						
TEMPERATURES — AIR TO FURNACE	S	2.2	2.0	2.5	2.2	2.2	2.5
TEMPERATURES — F.O. TEMP. IN SETTLING TANKS	P	90	90	90	90	90	90
TEMPERATURES — F.O. TEMP. IN SETTLING TANKS	S	110	110	110	105	110	110
TEMPERATURES — PORT BOILER UPTAKE							
TEMPERATURES — STBD. BOILER UPTAKE		285	285	285	290	290	290
PRESSURES — F. O. BACK PRESSURE							
PRESSURES — MAIN STEAM		220	220	220	220	220	220
PRESSURES — F.O. TO BURNERS		130	120	120	120	120	120

MISCELLANEOUS

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MAIN COND. SALINITY		.09	.09	.08	.08	.08	.08
ENGINE ROOM TEMPERATURE		70	69	68	68	70	72
FIRE ROOM TEMPERATURE							
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
NO. OF BURNERS IN USE	S	2	2	2	2	2	2
BURNER TIP SIZE	P						
BURNER TIP SIZE	S	53/60	53/60	53/60	/60	53/60	53/60
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	650	9	110	110		62	1350	1350	240
	2	1200	440	650	7	122	108		62	Idling		240
1600 TO 2000	1	1200	440	640	9	120	110		62	1250	1250	240
	2	1200	440	640	7	122	108		62	Idling		240
2000 TO 2400	1	1200	440	640	9	120	110		62	1300	1300	240
	2	1200	440	640	7	122	108		62	Idling		240
2400 TO 0400	1	[illegible]	[illegible]	[illegible]	9	120	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
	2	[illegible]	[illegible]	[illegible]	7	[illegible]	[illegible]		[illegible]	—	—	[illegible]
0400 TO 0800	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]
	2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	—	—	[illegible]
0800 TO 1200	1	[illegible]	[illegible]	670		111	110		[illegible]	1700	1700	[illegible]
	2	[illegible]	[illegible]	640		122	108		[illegible]	—	—	[illegible]

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON	1139885.0
FUEL OIL	METER PREVIOUS NOON	1139669.0
FUEL OIL	CONSUMED BY METER	2170
FUEL OIL	ON HAND AT START OF DAY	10,141
FUEL OIL	RECEIVED DURING DAY	-0-
FUEL OIL	EXPENDED DURING DAY	50
FUEL OIL	REMAINING ON BOARD	10,091
DOMESTIC WATER	ON HAND AT START OF DAY	980
DOMESTIC WATER	EVAPORATED OR RECEIVED	-0-
DOMESTIC WATER	ON HAND	960
DOMESTIC WATER	CONSUMED	20
BOILER WATER	ON HAND AT START OF DAY	195
BOILER WATER	EVAPORATED OR RECEIVED	15
BOILER WATER	ON HAND	195
BOILER WATER	CONSUMED	15
LUBE OIL	ON HAND AT START OF DAY	2105
LUBE OIL	RECEIVED	-0-
LUBE OIL	ON HAND	2100
LUBE OIL	CONSUMED	5
DIESEL OIL	ON HAND	1210
DIESEL OIL	RECEIVED	1208
DIESEL OIL	CONSUMED	2

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		PROPELLER SLIP (%)	
DETENTION TIME		BBL. FUEL MI	
TOTAL REVOLUTIONS		WIND DIRECTION	
AVERAGE R.P.M.		STATE OF SEA	
TOTAL MILES BY ENGINE		STATE OF WEATHER	
TOTAL MILES BY OBSERVATION			

REMARKS

1200-1600 WATCH

PORT RELIEF WATCH. Mach'y in Oper. - No 2 Boiler, FD Blower, Elec FO & FO Pump, FD master, No 1-2 Gens, Condensers, Circ & No 1 Mn Cond Pump on to Aux Eject, No 2 Gen idling. ML Evap. No 1 Air Compr on Stdby, No 1 Elec FW Pump & FWS Pump using inboard Sett. FW Suct. 3¢. Changed & cleaned burners and both Suct & Disch FO Strs. 1430 Sizeable leak in Aft Peak manhole cover. Manhole cover loose. Tightened nuts. Stopped leak. Tank not over flowing.

Chief - Morrish FWT - Sawyers RPO - Brown (Relief) WATCH ENGR'S SIGNATURE [signature] RPO

1600-2000 WATCH

PORT RELIEF WATCH. 1600 Notified water pouring on Fan Tail from Aft Peak over flow. Checked valves in SP. One cracked open. Secured. O'flow stopped. Routine plus checks. Condition back to normal. Changed & cleaned burners and disch str. Bilge satisfactory.

Chief - Levell FWT - Sawyers (Stakins) RPO - Brown (Relief) WATCH ENGR'S SIGNATURE [signature] RPO

2000-2400 WATCH

PORT RELIEF WATCH. Mach'y same. Routine checks of mach'y and spaces. Changed and cleaned burners and disch strainer. Pumped ER bilge down. Complied with S/O & N/O. Condition Normal.

Note:- Need rags. FWT & Chief in need. Will get Steward for sheets tomorrow - Sunday.

Chief - Levell FWT - Sawyers RPO - Brown (Relief) WATCH ENGR'S SIGNATURE [signature] RPO

2400-0400 WATCH

Normal Mach. Watch

Pumped Aft Sump Level

Changed & Cleaned Burners

Chief Simpson Relieved Chief Gentile WATCH ENGR'S SIGNATURE [signature]

0400-0800 WATCH

Machinery As Before

Bilges At Safe Level

Rou'ine inspection of Mn & Aux Mach. Small Oil at Regular Intervals.

Machinery As Before WATCH ENGR'S SIGNATURE [signature]

0800-1200 WATCH

Machinery As Before

Bilges At Safe Level

Re-Stm on STBD Inbd & Outboard F.O. Settlers both at 80°

Took on Freshwater Tk & 3¢ Dblt. Approx 2½ ft. To about 9 feet level.

Chief Hornsby Relieved Chief Simpson WATCH ENGR'S SIGNATURE [signature]

CHIEF ENGINEER

B... TPC READINGS

STBD ...

BOILER ... HOURS

FWT ...

... AKL

... ...

... BBUS.

... R.ph.

CHIEF ENGR'S SIGNATURE [signature]

A 8025

USNS	VOYAGE NO.	~~FROM~~	TO	TYPE OF VESSEL	DATE
GEN. JOHN POPE TAP 110		AT NSC OAKLAND, CA.		P2S2R2	4-23-67

	WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
RUNNING TIME						
DETENTION TIME						
REVOLUTION COUNTER (END OF WATCH)						
TOTAL REVOLUTIONS (FOR WATCH)						
AVERAGE RPM						
F.O. METER (END OF WATCH)	1139 9210	1139 9510	1139 9940	1140 2740		
F.O. CONSUMED	360	360	370	2800		
MACHINERY PARTICULARS — PRESSURES — THROTTLE						
H.P. AHEAD						
L.P. AHEAD						
A.E. VACUUM 1/2	23.5"	24"	24"			
L.O. TO TURBINES						
AUX. STEAM	150	150	150			
BACK PRESSURE	10	10	10			
GLAND STEAM						
H.P. BLEEDER						
I.P. BLEEDER						
L.P. BLEEDER						
MACHINERY PARTICULARS — TEMPERATURES — STEAM AT THROTTLE						
A.E. L.P. EXHAUST	105/100	109/104	90/90			
CONDENSATE						
CIRC. WATER IN	53	58	58			
A.E. CIRC. WATER OUT	72/54	73/60	66/64			
L.O. TO COOLERS						
L.O. FROM COOLERS						
TEMPERATURE THRUST BEARING						
FORWARD H.P. ROTOR BEARING						
AFT. H.P. ROTOR BEARING						
FORWARD L.P. ROTOR BEARING						
AFT. L.P. ROTOR BEARING						

		WATCH 1200 TO 1600	1600 TO 2000	2000 TO 2400	2400 TO 0400	0400 TO 0800	0800 TO 1200
MACH. PARTICULARS (CONT'D) — TEMPERATURES (CONT'D) — HOTTEST GEAR BEARING FORWARD							
HOTTEST GEAR BEARING AFT							
AUX. COND. CONDENSATE		100	103	85			
1ST STAGE FEED WATER HEATER		112	118	100			
D. C. FEED WATER HEATER		240	242	208			
3RD STAGE FEED WATER HEATER							
BOILER PARTICULARS — TEMPERATURES — SUPER HEAT	P						
	S	650	655	610			
F.O. TO BURNERS		190	190	190			
AIR TO FURNACE	P						
	S	2.5	2.3	2.2			
F.O. TEMP. IN SETTLING TANKS	P	85	85	85			
	S	105	105	105			
PORT BOILER UPTAKE							
STBD. BOILER UPTAKE		300	300	275			
PRESSURES — F. O. BACK PRESSURE							
MAIN STEAM		240	240	240			
F.O. TO BURNERS		140	130	140			
MISCELLANEOUS — MAIN COND. SALINITY		.07	.06	.07			
ENGINE ROOM TEMPERATURE		72	73	69			
FIRE ROOM TEMPERATURE							
NOZZLES IN USE							
NO. OF BURNERS IN USE	P						
	S	2	2	2			
BURNER TIP SIZE	P						
	S	53/60	53/60	53/60			
CO_2 % PORT BOILER							
CO_2 % STBD. BOILER							
OIL LEVEL MAIN SUMP							

GENERATORS

WATCH	GENERATOR NUMBER	R.P.M.	STEAM PRESSURE	STEAM TEMP.	L.O. PRESSURE	L.O. TO COOLER	L.O. FROM COOLER	TEMP. OF HOTTEST BEARING	L.O. GOVERNOR PRESSURE	AMPS POSITIVE	AMPS NEGATIVE	VOLTS
1200 TO 1600	1	1200	440	650	9	118	110		62	1300	1300	240
	2	1200	440	650	7	122	110		62	Idling		240
1600 TO 2000	1	1200	440	655	9	120	110		62	1300	1300	240
	2	1200	440	655	7	122	110		62	Idling		240
2000 TO 2400	1	1200	440	610	7	122	110		62	600	600	240
	2	1200	440	610	7	122	110		63	600	600	240
2400 TO 0400												
0400 TO 0800												
0800 TO 1200												

FUEL - WATER AND LUBE OIL

FUEL OIL	METER AT NOON		BOILER WATER	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		LUBE OIL	ON HAND AT START OF DAY
	EXPENDED DURING DAY			RECEIVED
	REMAINING ON BOARD			ON HAND
DOMESTIC WATER	ON HAND AT START OF DAY			CONSUMED
	EVAPORATED OR RECEIVED		DIESEL OIL	ON HAND
	ON HAND			RECEIVED
	CONSUMED			CONSUMED

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

L.O. CENTRIFUGE - HOURS OPERATED

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

SUMMARY

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

REMARKS

1200-1600 WATCH

Port Relief Watch. Mach'y in Operation. No. 1 Boiler, F.C. Blower, Elec. Fd. & F.O. Serv. Pump w/F.C. Htr, Inbd. Sett. 6½, Nos. 1-2 S.S. Gens, Condensers and Aux. Circ., No 1 Main Cond. Pump, No 2 Gen. idling, Aux. Air Eject., No 1 Air Compr on Stby, No. 1 Elec F-S Pump and F.W. Pump, suct. 3½, dis. Blow down M.E. Evap. in service. Changed and cleaned burners and both disch and suction strs. Capt. Burton in ER with guest Mr. Summers and friends visited ER. Oiler wiped up Gens.

Oiler - Farnsb Fwt - Semonds RA - Brown WATCH ENGR'S SIGNATURE- [signature] R/E

1600-2000 WATCH

Port Relief Watch. Mach'y same except Return by pass at aft Sett's is open. Trap is either stopped up or too small. 4 hrs. with very little rise in temp. Made routine checks of machinery spaces. Changed burners and disch strs & cleaned. Filled reserve Fd. Tk. 1830 Aft Sett's 100°. Secured stm. and closed by pass. Trap valves open thru trap. Bilge satisfactory.

Oiler - Lovell Fwt - Watkins RA - Marvin WATCH ENGR'S SIGNATURE- [signature]

2000-2400 WATCH

Port Relief Watch. Mach'y same. Routine checks made. Changed/cleaned burners and strs. 2130 No. 2 Gen. on line. 2200 No 2 Boiler in readiness. Lit-off. Burning 5 min. ON, 20 min OFF for warm-up. Complied with S/C & N/C. Condition Normal. Bilge satisfactory. 2230 Mr McDonald pumped Sett's in this ER. Non a Cutbd. Stm. on both Sett's. - McE

Oiler - Lovell Fwt - Watkins RA - Marvin WATCH ENGR'S SIGNATURE- [signature] R/E

2400-0400 WATCH

WATCH ENGR'S SIGNATURE-

0400-0800 WATCH

WATCH ENGR'S SIGNATURE-

0800-1200 WATCH

WATCH ENGR'S SIGNATURE-

CHIEF ENGINEER

CHIEF ENGR'S SIGNATURE- [signature]

A-35544

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
29. L.O. PRES #1 3	8	8		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
28. L.O. PRES #2 4		10		10	10	10	10	10	10	10	10												
31. L.O. TO COOLER #1 3	132	132		130	130	132	132	132	132	132	132	132	132	132	132	132	132	132	132	132	130	128	132
34. L.O. TO COOLER #2 4		125		130	130	130	130	130	130	130	130												
33. L.O. FROM COOLER #1 3	108	106		108	108	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	108	106	106
32. L.O. FROM COOLER #2 4		104		108	108	110	110	110	110	110	110												
35. L.O. GOV PRES #1 3	64	64		64	64	64	64	64	64	64	64	63	63	63	63	63	63	63	64	64	64	64	64
34. L.O. GOV PRES #2 4		48		48	48	47	47	47	47	47	47												
37. AMPS POS #1 3	1000	1000	1100	1150	1150	1100	1050	1100	1150	1000	1100	1200	1100	1200	1150	1150	1100	1100	1050	1050	1050	1050	1050
36. AMPS POS #2 4																							
39. AMPS NEG #1 3	1000	1000	1100	1150	1150	1100	1050	1100	1150	1000	1100	1100	1100	1200	1150	1150	1100	1100	1050	1050	1050	1050	1000
38. AMPS NEG #2 4																							
41. HP HIGH SPEED PIN. AFT	138	138	138	140	140	126	126	126	125	125		138	138	138	138	140	140	140	140	138	138	138	138
42. HP INTER SPEED PIN FWD	140	140	142	142	142	126	126	125	125	125		140	140	140	140	142	142	142	142	140	140	140	140
43. HP INTER SPEED PIN AFT	136	135	135	132	132	125	125	125	125	125		135	136	135	135	132	132	132	132	135	135	135	135
44. L.P. THRUST BEARING	130	130	130	132	132	115	115	115	115	115		130	130	130	130	130	130	130	130	130	130	130	130
45. H.P. THRUST BEARING	142	142	142	142	142	126	126	125	125	125		140	140	140	142	142	142	142	142	142	142	142	142
46. LP HIGH SPEED PIN. FWD	125	125	125	126	126	116	116	116	120	120		122	122	122	125	126	126	126	126	125	125	125	125
47. LP HIGH SPEED PIN. AFT	120	120	120	125	126	120	120	120	120	120		120	120	120	122	125	125	125	125	125	125	125	125
48. LP INTER SPEED PIN FWD	146	146	146	148	148	122	122	122	122	122		145	145	146	145	148	148	148	148	150	150	150	150
49. LP INTER SPEED PIN. AFT	138	138	138	140	140	125	125	125	125	125		135	135	135	135	140	140	140	140	140	140	140	140
50. MAIN GEAR ROTOR FWD	106	106	106	110	110	106	106	106	105	105	105	105	105	105	105	108	108	108	108	110	110	110	110
51. MAIN GEAR ROTOR AFT	108	108	108	108	108	105	105	105	100	105	105	108	108	108	108	107	107	107	107	105	105	105	105
52. LP BLEED	12"	12"	12"	12"	12"	24"	24"	24	25	25	25	12"	12"	12"	12"	11"	11"	11"	11"	12	12	12	12

Mon - 15 - 14 - 67

	TIME	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1.	L.P. EXHAUST TEMP	96	96	96	96	96	95	95	88	92	92		92	94	94	94	[illegible]	[illegible]	87	94	94	96	98	98	96
2.	MN COND STE TEMP	90	90	90	90	90	82	82	76	72	68	72	90	90	90	90	90	90	90	90	90	90	100	100	90
3.	MN INJ TEMP	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	58	56
4.	MN OVBD TEMP	68	68	68	66	66	56	56	56	56	56		66	66	66	66	66	66	66	66	68	68	68	70	68
5.	L.O. TO COOLERS	126	126	126	126	126	122	122	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126
6.	L.O. FROM COOLERS	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
7.	THRUST BRG TEMP	112	112	112	112	112	108	108	108	108	108	108	110	110	110	110	110	110	110	110	112	112	112	112	112
8.	FWD H.P. ROTOR BNG	120	120	120	122	122	118	118	118	118	118		120	120	120	120	122	122	122	122	122	122	122	122	120
9.	AFT H.P. ROTOR BNG	125	125	125	125	125	120	120	120	120	120		125	125	125	125	126	126	126	126	125	125	125	125	125
10.	FWD L.P. ROTOR BNG	130	130	130	130	132	120	120	120	120	120		125	125	125	125	127	127	127	127	127	130	130	130	130
11.	AFT L.P. ROTOR BRG	125	125	125	125	125	120	120	120	125	125		125	125	125	125	125	125	125	125	125	125	125	125	125
12.	HOT GEAR BRG FWD	146	146	146	148	148	126	126	126	126	126		145	145	145	145	148	148	148	148	142	142	142	142	146
13.	HOT GEAR BRG AFT	138	138	138	140	140	125	125	125	125	125		138	138	138	138	140	140	140	140	138	138	138	138	138
14.	AUX COND STE TEMP	66/78 86	86	66/78	60/80	60/80	64/80	60/80	66/84	68/88	68/88	72/88	86	86	86	86	86	86	86	84	84	84	86	86	86
15.	1ST STAGE AIR TEMP	165	165	165	165	165	80	80	80	80	80		165	165	165	165	165	165	165	165	165	170	170	165	165
16.	D.C. HEATER TEMP	238	238	238	238	236	236	236	236	234	236		238	238	238	238	238	238	238	238	236	236	238	236	238
17.	SUPRHT TEMP PORT	735	735	735	730	730	655	655	665	660	635		730	730	730	730	730	730	730	730	745	735	740	735	736
18.	SUPRHT TEMP STBD	735	735	735	730	730	655	655	615	660	635		730	730	730	730	730	730	730	730	745	735	740	735	735
19.	F.O. SETT TEMP P	100	100	100	100	100	106	106	106	100	100	106	100	100	100	100	100	100	100	100	104	104	104	104	104
20.	F.O. SETT TEMP S	100	100	100	100	100	100	100	100	100	100	95	100	100	100	100	100	100	100	100	104	104	104	104	104
21.	UPTAKE PORT	315	320	315	310	310	295	295	295	280	270		310	310	310	310	310	310	310	310	315	315	315	315	315
22.	UPTAKE STBD	305	310	310	305	305	290	290	290	270	260		300	300	300	305	305	305	305	305	305	300	305	300	305
23.	F.O. PUMP SUCT TEMP	120	115	110	110	112	112	112	112	112	110	112	120	120	120	115	115	115	115	115	118	118	120	120	120
24.	MN FD PMP L.O PORT	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
25.	MN FD PMP L.O STBD	30	30	30	30	30	30	30	30	30	30	30	28	28	28	28	28	28	28	28	28	28	28	28	30
26.	L.O. TO GEARS	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
27.	AIR COMPR L.O. PRESS	31	31	31	30	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31	31	31	31	31

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
29. L.O. PRES #1 3	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
28. L.O. PRES #2																								
31. L.O. TO COOLER #1 3	132	132	132	132	132	132	132	132	132	132	132	134	134	134	134	134	132	132	132	132	132	132	132	132
34. L.O. TO COOLER #2																								
33. L.O. FROM COOLER #1 3	110	110	110	110	110	110	110	110	110	110	110	108	108	108	108	108	110	110	110	110	110	110	110	110
32. L.O. FROM COOLER #2																								
35. L.O. GOV PRES #1 3	64	64	64	64	64	64	64	64	64	64	64	63	63	63	63	63	63	63	63	64	64	64	64	64
34. L.O. GOV PRES #2																								
37. AMPS POS #1 3	1150	1150	1250	1350	1350	1400	1350	1200	1100	1050	1000	1200	1300	1100	1100	1150	1100	1100	1200	1100	1050	1100	1100	1100
36. AMPS POS #2																								
39. AMPS NEG #1 3	1150	1150	1250	1350	1350	1400	1350	1200	1100	1050	1000	1200	1300	1100	1100	1150	1100	1100	1200	1100	1050	1100	1100	1100
38. AMPS NEG #2																								
41. HP HIGH SPEED PIN. AFT	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	140	140	140	140	138	138	138	138	138
42. HP INTER SPEED PIN FWD	140	140	140	140	140	140	140	140	140	140	140	140	140	140	140	144	144	144	144	140	140	140	140	140
43. HP INTER SPEED PIN AFT	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	132	132	132	132	135	135	135	135	135
44. L.P. THRUST BEARING	132	132	132	132	132	132	132	132	132	132	132	130	130	130	130	132	132	132	132	132	132	132	132	132
45. H.P. THRUST BEARING	142	142	142	142	142	142	142	142	142	142	142	140	140	140	142	142	142	142	142	142	142	142	142	142
46. LP HIGH SPEED PIN. FWD	125	125	125	125	125	125	125	125	125	125	125	122	122	122	125	126	126	126	126	125	125	125	125	125
47. LP HIGH SPEED PIN. AFT	122	122	122	122	122	122	122	125	125	125	125	120	120	120	122	125	126	126	126	125	125	125	125	122
48. LP INTER SPEED PIN FWD	146	146	146	146	146	146	146	146	148	150	150	145	145	145	145	150	150	150	150	150	150	150	150	146
49. LP INTER SPEED PIN. AFT	136	136	135	135	135	135	135	135	138	140	140	135	135	135	135	142	142	142	142	140	140	140	140	136
50. MAIN GEAR ROTOR FWD	105	105	105	105	105	105	105	108	110	110	110	105	105	105	100	110	110	110	110	110	110	110	110	105
51. MAIN GEAR ROTOR AFT	108	108	108	108	108	108	108	108	106	105	105	108	108	108	108	102	102	102	102	105	105	105	105	105
52. LP BLEED	12"	12"	12"	12"	12"	12"	12"	12	11	11	11	12	12"	12"	12"	12"	12"	12"	12"	12	12	12	12	12

Aft 3/14-15/67

	TIME	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1.	L.P. EXHAUST TEMP	92	92	92	94	94	92	92	92	92	92	92	90	90	90	92	94	94	94	94	92	92	92	92	92
2.	MN COND STE TEMP	90	90	90	90	90	90	90	90	90	90	90	88	88	88	86	88	88	88	88	90	90	90	90	90
3.	MN INJ TEMP	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	58	58	58	58	58	56	56	56	56
4.	MN OVBD TEMP	68	68	68	68	68	68	68	68	68	68	68	67	67	67	67	70	70	70	70	70	68	68		68
5.	L.O. TO COOLERS	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126
6.	L.O. FROM COOLERS	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
7.	THRUST BRG TEMP	110	110	110	110	110	110	110	110	110	112	112	110	110	110	110	110	110	110	110	110	110	110	110	110
8.	FWD H.P. ROTOR BRG	122	122	122	122	122	122	122	122	122	122	122	120	120	120	120	122	122	122	122	122	122	122	122	122
9.	AFT H.P. ROTOR BRG	128	125	125	125	125	125	125	125	125	125	125	122	122	122	125	126	126	126	126	125	125	125	125	125
10.	FWD L.P. ROTOR BRG	128	128	128	128	128	128	128	128	128	128	128	125	125	125	125	127	127	127	127	127	127	127	128	128
11.	AFT L.P. ROTOR BRG	125	125	125	125	125	125	125	125	125	125	125	125	125	120	120	125	125	125	125	125	125	125	125	125
12.	HOT GEAR BRG FWD	146	146	146	148	148	148	148	142	142	142	142	145	145	145	145	150	150	150	150	142	142	142	142	146
13.	HOT GEAR BRG AFT	138	138	138	138	138	138	138	138	138	138	138	138	138	138	138	142	142	142	142	138	138	138	138	138
14.	AUX COND STE TEMP	86	86	86	88	88	88	88	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
15.	1ST STAGE AIR TEMP	165	165	165	165	165	165	165	170	170	170	170	165	165	165	165	165	165	165	165	170	170	165	165	165
16.	D.C. HEATER TEMP	238	238	238	238	238	238	238	238	238	238	238	238	238	238	238	236	236	236	236	236	238	236	238	238
17.	SUPRHT TEMP PORT	735	730	730	735	735	735	735	735	730	730	735	735	735	735	740	735	735	735	735	745	745	745	740	735
18.	SUPRHT TEMP STBD	735	730	730	735	735	735	735	735	730	730	735	735	735	735	740	735	735	735	735	745	745	745	740	735
19.	F.O. SETT TEMP P	100	100	100	100	100	100	100	106	104	102	100	100	100	100	100	102	102	102	102	100	100	100	100	100
20.	F.O. SETT TEMP S	100	100	100	100	100	100	100	100	100	100	100	105	100	105	100	100	100	100	100	100	100	100	100	100
21.	UPTAKE PORT	310	310	310	310	310	310	310	320	305	305	305	315	310	310	310	305	305	305	305	315	315	320	315	310
22.	UPTAKE STBD	305	305	305	305	305	305	305	320	295	295	295	300	300	300	300	295	295	295	295	300	300	305	300	305
23.	F.O. PUMP SUCT TEMP	106	110	110	110	110	110	110	[illegible]	118	110	110	120	110	110	110	112	114	114	114	118	120	122	110	105
24.	MN FD PMP L.O PORT	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
25.	MN FD PMP L.O STBD	30	30	30	30	30	30	30	30	30	30	30	29	29	29	29	30	30	30	30	30	30	30	30	30
26.	L.O. TO GEARS	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
27.	AIR CONTR L.O. PRESS	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31

Fwd. 3/14-15/67

	TIME	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1.	L.P. EXHAUST TEMP	90	90	90	90	90	90	90	90	90	90	90	90	90	92	92	90	90	90	90	91	91	91	91	90
2.	MN COND STE TEMP	80	82	82	81	82	80	81	82	83	82	83	82	82	82	82	80	81	81	80	83	83	83	82	79
3.	MN INJ TEMP	56	56	56	58	58	58	58	55	55	56	56	60	60	58	58	58	58	58	58	56	56	56	56	56
4.	MN OVBD TEMP	68	70	70	68	68	68	68	68	68	68	68	70	70	70	70	68	68	68	68	68	68	68	68	68
5.	L.O. TO COOLERS	128	129	130	128	128	128	129	129	129	129	129	128	129	129	128	128	129	129	129	129	129	129	129	129
6.	L.O. FROM COOLERS	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
7.	THRUST BRG TEMP	119	119	120	120	120	120	120	119	119	119	119	119	119	120	119	118	120	120	120	119	119	119	119	119
8.	FWD H.P. ROTOR BNG	124	126	127	125	123	125	125	124	124	124	124	120	119	127	124	125	125	125	125	124	124	124	124	124
9.	AFT H.P. ROTOR BNG	136	137	137	135	135	138	138	136	136	136	135	135	136	140	135	135	138	138	135	136	136	136	136	136
10.	FWD L.P. ROTOR BNG	133	134	134	133	133	135	135	131	131	131	131	133	133	135	130	133	133	135	135	132	131	131	131	133
11.	AFT L.P. ROTOR BRG	127	128	130	128	128	128	128	128	128	128	128	127	127	130	127	128	128	128	128	128	128	128	128	126
12.	HOT GEAR BRG FWD	158	158	158	158	155	158	155	156	156	156	155	154	155	162	158	155	158	158	158	157	158	157	157	158
13.	HOT GEAR BRG AFT	145	146	146	145	145	145	145	145	146	146	145	144	144	148	144	145	148	148	145	145	145	145	145	145
14.	AUX COND STE TEMP	90/90	90/90	90/90	90/90	92/90	92/90	92/90	95/95	95/95	88/95	90/95	95/95	96/96	90/90	90/90	96/94	96/94	94/92	94/90	92/95	90/95	90/95	90/90	90/90
15.	1ST STAGE AIR TEMP	150	150	150	148	148	148	148	146	152	150	148	150	150	152	152	146	148	148	148	150	148	148	148	150
16.	D.C. HEATER TEMP	240	240	238	238	238	238	238	238	238	238	238	238	240	240	240	237	238	238	238	238	238	238	238	240
17.	SUPRHT TEMP PORT	620	620	620	630	650	670	660	650	660	660	670	660	660	620	620	620	630	650	650	650	660	660	660	650
18.	SUPRHT TEMP STBD	610	610	610	610	660	680	680	670	680	680	690	670	690	620	620	630	650	630	630	620	620	630	630	620
19.	F.O. SETT TEMP P	110	110	110	105	105	105	100	100	100	100	100	100	115	110	110	110	110	105	105	105	105	105	105	105
20.	F.O. SETT TEMP S	115	105	105	95	105	105	100	100	100	100	100	105	115	110	110	110	110	105	105	110	105	105	105	105
21.	UPTAKE PORT	355	355	355	355	345	370	370	345	345	345	345	350	350	350	355	360	340	340	345	350	350	350	355	355
22.	UPTAKE STBD	355	350	350	355	355	345	360	335	335	335	335	340	350	345	345	350	330	335	345	345	345	345	345	350
23.	F.O. PUMP SUCT TEMP	118	116	116	112	112	112	112	112	106	106	106	100	108	112	112	112	112	112	112	112	112	112	112	111
24.	MN FD PMP L.O PORT	34	34	34	34	34	34	34	34	34	34	34	35	33	34	34	34	34	34	34	34	34	34	34	34
25.	MN FD PMP L.O STBD	20	20	20	20	20	20	20	22	22	22	22	25	25	25	25	23	25	25	25	22	22	22	22	20
26.	L.O. TO GEARS	112	114	114	112	112	112	112	114	114	114	114	112	114	114	112	112	112	112	112	114	114	114	114	112
27.	AIR CONTR L.O. PRESS	30	30	30	30	30	30	30	30	30	30	30	30	30	30	28	30	30	30	30	30	30	30	30	30

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
29. L.O. PRES #1	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
28. L.O. PRES #2	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
31. L.O. TO COOLER #1	120	120	122	120	118	116	120	120	120	120	120	120	120	122	120	115	120	120	120	120	120	120	120
30. L.O. TO COOLER #2	126	125	125	126	124	124	124	124	124	124	124	125	125	125	126	126	128	126	126	128	126	126	126
33. L.O.FROM COOLER #1	109	110	110	108	108	108	110	110	110	110	110	112	110	110	110	103	110	110	110	110	110	110	110
32. L.O.FROM COOLER #2	112	112	112	114	112	112	112	112	110	110	110	110	110	113	113	116	116	114	114	114	112	112	112
35. L.O. GOV PRES #1	62	62	62	61	61	61	61	62	62	62	62	62	62	62	62	62	64	61	61	62	62	62	62
34. L.O. GOV PRES #2	62	62	62	63	63	63	63	62	62	62	62	62	62	62	62	63	63	63	63	62	62	62	62
37. AMPS POS #1	950	900	900	1000	1100	1100	1100	1000	1000	900	800	950	850	900	1100	1050	1000	1000	950	900	900	900	900
36. AMPS POS #2	800	750	1050	700	700	700	700	800	1000	1000	1100	1000	1050	900	1150	700	750	750	750	800	800	800	800
39. AMPS NEG #1	900	900	900	1000	1150	1100	1100	1000	1000	900	800	950	950	850	1150	1100	1050	1000	1000	900	900	900	900
38. AMPS NEG #2	750	800	1000	700	750	750	750	800	1000	1000	1100	900	950	950	800	750	800	800	850	800	800	800	800
41. HP HIGH SPEED PIN. AFT	145	146	146	145	145	145	145	145	146	146	145	144	144	146	144	145	148	148	145	145	145	145	146
42. HP INTER SPEED PIN FWD	146	146	145	145	145	145	146	145	145	144	143	146	147	147	145	145	148	148	145	145	145	145	145
43. HP INTER SPEED PIN AFT	146	148	149	145	145	145	148	147	147	146	146	146	146	146	146	145	148	148	145	146	147	147	147
44. L.P. THRUST BEARING	130	133	133	130	130	132	132	130	130	130	130	130	130	134	130	130	130	132	132	130	130	130	130
45. H.P. THRUST BEARING	146	146	149	145	143	145	145	144	143	143	143	143	142	146	145	145	145	145	145	144	145	145	145
46. LP HIGH SPEED PIN. FWD	132	132	134	130	133	133	132	131	132	132	132	130	130	135	130	130	133	133	133	132	131	131	131
47. LP HIGH SPEED PIN. AFT	127	127	128	128	128	128	127	128	128	128	128	127	127	128	127	128	128	128	128	128	128	128	127
48. LP INTER SPEED PIN FWD	154	155	155	153	153	153	155	153	153	153	153	152	153	154	152	153	153	153	153	153	153	153	153
49. LP INTER SPEED PIN. AFT	133	134	135	133	133	133	135	133	133	133	133	132	132	135	130	133	133	133	133	133	133	133	132
50. MAIN GEAR ROTOR FWD	114	114	114	115	115	115	115	115	115	115	115	114	114	114	114	115	115	115	115	115	115	115	114
51. MAIN GEAR ROTOR AFT	106	107	110	105	108	110	106	108	106	106	105	100	105	100	100	98	98	98	108	106	105	105	106
52. LP BLEED	10	10	10	10	10	10	10	10	10	10	10	11	10	10	10	11	10	10	10	11	11	11	11

TIME	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1. L.P. EXHAUST TEMP	92	92	92	92	92	92	92	92	92	92	90	92	92	92	92	92	92	92	92	92	92	92	92	92
2. MN COND STE TEMP	86	86	86	88	88	88	88	86	88	90	90	86	86	86	86	87	87	87	87	86	86	88	88	86
3. MN INJ TEMP	54	54	54	56	56	56	58	56	56	56	56	54	54	54	54	54	54	54	54	56	56	56	56	54
4. MN OVBD TEMP	66	66	66	66	66	66	66	68	68	68	68	64	64	64	64	66	66	66	66	68	68	68	68	66
5. L.O. TO COOLERS	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126	126
6. L.O. FROM COOLERS	110	110	110	110	110	110	110	110	110	110	110	110	110	110	112	110	110	110	110	110	110	110	110	110
7. THRUST BRG TEMP	110	110	110	110	110	110	110	110	110	112	110	110	110	110	110	112	112	112	112	110	110	110	110	110
8. FWD H.P. ROTOR BNG	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	122	122	122	122	122	122	122	122	120
9. AFT H.P. ROTOR BNG	124	124	124	124	124	124	124	124	125	125	125	122	122	122	122	122	122	122	122	125	125	125	125	122
10. FWD L.P. ROTOR BNG	125	125	125	127	127	127	127	127	127	128	128	122	125	125	125	130	130	130	130	130	130	130	130	125
11. AFT L.P. ROTOR BRG	125	125	126	125	125	125	125	125	125	125	125	125	125	125	125	127	127	127	127	125	125	125	125	125
12. HOT GEAR BRG FWD	146	146	146	148	148	148	148	142	142	142	142	146	146	146	146	150	150	150	150	142	142	142	142	146
13. HOT GEAR BRG AFT	136	136	136	140	140	140	140	138	138	138	138	138	138	138	138	140	140	140	140	138	138	138	138	136
14. AUX COND STE TEMP	[illegible]	82	82	82	82	84	84	84	84	86	86	82	82	82	82	82	82	82	82	82	84	84	84	82
15. 1ST STAGE AIR TEMP	[illegible]	165	165	165	165	165	165	165	165	165	170	165	165	165	165	165	165	165	165	165	165	165	165	165
16. D.C. HEATER TEMP	238	238	238	238	236	236	238	236	236	238	238	238	238	238	238	238	238	238	238	238	238	236	236	238
17. SUPRHT TEMP PORT	740	730	730	730	730	730	730	735	745	740	735	730	720	730	725	735	735	735	735	740	750	750	740	740
18. SUPRHT TEMP STBD	740	735	730	730	730	730	730	735	745	740	735	730	720	730	725	735	735	735	735	740	750	750	740	740
19. F.O. SETT TEMP P	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
20. F.O. SETT TEMP S	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
21. UPTAKE PORT	320	320	320	325	325	330	320	330	310	310	315	315	315	315	310	310	310	310	310	315	320	325	320	320
22. UPTAKE STBD	305	305	310	315	315	315	315	325	300	300	300	300	300	300	300	295	295	295	295	300	305	315	305	305
23. F.O. PUMP SUCT TEMP	120	116	116	120	122	126	126	90	90	90	90	100	100	100	100	122	122	124	124	110	114	118	118	120
24. MN FD PMP L.O PORT	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
25. MN FD PMP L.O STBD	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
26. L.O. TO GEARS	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
27. AIR COMPR L.O. PRESS	30	30	30	31	32	32	32	32	32	32	32	30	30	30	30	30	30	30	30	30	30	30	30	30

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
29. L.O. PRES #~~1~~ 3	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
28. L.O. PRES #2																							
31. L.O. TO COOLER #~~1~~ 3	132	132	132	132	132	132	132	132	132	132	132	128	126	128	130	132	132	132	132	132	134	132	132
30. L.O. TO COOLER #2																							
33. L.O. FROM COOLER #~~1~~ 3	110	110	110	110	110	110	110	110	110	110	110	104	105	106	110	110	110	110	110	112	110	110	110
32. L.O. FROM COOLER #2																							
35. L.O. GOV PRES #~~1~~ 3	63	63	63	63	63	63	63	64	64	64	64	64	64	64	63	64	64	64	64	64	64	64	63
34. L.O. GOV PRES #2																							
37. AMPS POS #~~1~~ 3	750	850	1000	1100	1150	1250	1200	1200	1150	1100	1150	900	1000	1000	1000	1050	1100	1050	1200	1050	1050	1250	1050	1000
36. AMPS POS #2																							
39. AMPS NEG #~~1~~ 3	750	850	1000	1100	1150	1250	1200	1200	1150	1100	1150	900	1000	1000	1000	1050	1100	1050	1200	1050	1050	1250	1050	1000
38. AMPS NEG #2																							
41. HP HIGH SPEED PIN. AFT	136	136	136	140	140	140	140	138	138	138	138	138	138	138	138	140	140	140	140	138	138	138	138	136
42. HP INTER SPEED PIN FWD	140	140	140	142	142	142	142	140	140	140	140	140	140	140	142	144	144	144	144	140	140	140	140	140
43. HP INTER SPEED PIN AFT	130	135	130	135	135	135	135	135	135	135	130	135	135	136	135	132	132	132	132	135	135	135	135	130
44. LP. THRUST BEARING	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
45. HP. THRUST BEARING	140	140	140	142	142	142	142	142	142	142	142	142	142	140	140	142	142	142	142	142	142	142	142	140
46. LP HIGH SPEED PIN. FWD	126	126	125	124	124	124	124	124	125	125	124	122	122	122	122	126	126	126	126	125	125	125	125	126
47. LP HIGH SPEED PIN. AFT	122	122	122	125	125	125	125	125	125	125	125	120	120	120	120	125	125	125	125	125	125	125	125	122
48. LP INTER SPEED PIN FWD	146	146	146	148	148	148	148	148	148	148	148	146	146	146	146	150	150	150	150	148	148	148	148	146
49. LP INTER SPEED PIN. AFT	136	136	136	140	140	140	140	140	140	140	140	136	136	136	136	140	140	140	140	140	140	140	140	136
50. MAIN GEAR ROTOR FWD	106	106	106	110	110	110	110	108	108	110	108	105	105	105	105	110	110	110	110	108	108	108	108	106
51. MAIN GEAR ROTOR AFT	108	108	108	104	102	102	102	105	105	105	105	108	108	108	108	104	104	104	104	105	105	105	103	108
52. LP BLEED	12"	12"	12"	12"	12"	12"	12"	13	12	12	12	12"	12"	12"	12	13"	13	13	13	13	13	13	12	12"

LR 23
103
5957