

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 31-12-52 19 When handed in at Local Office 25-1-1953 Port of GENOA

o. in Survey held at GENOA Date, First Survey 31st Aug. 1951 Last Survey 22nd December 1952
Book.

1297 on the STEEL TWIN SC. "ANDREA DORIA"

(No. of Visits 43)

Tons { Gross 29082
Net 15788

uilt at GENOA - SESTRI By whom built S.A. ANSALDO - CANTIERI NAVALI Yard No. 918 When built 1952

owners "ITALIA" Soc. per Azioni di NAVICAZIONE Port belonging to GENOA

Installation fitted by S.A. ANSALDO - CANTIERI NAVALI When fitted 1952

vessel equipped for carrying Petroleum in bulk NO Is vessel equipped with D.F. YES E.S.D. YES Gy.C. YES Sub.Sig. ✓ Radar YES

ans, have they been submitted and approved YES System of Distribution TWO WIRE WITH DIRECT CURRENT CONSTANT VOLTAGE OF LIGHTING 220

ating 220 Power 220 D.C. or A.C., Lighting 220 If A.C. state frequency 50

ime Movers, has the governing been found as per Rule when full load is thrown on and off YES Are turbine emergency governors fitted

in a trip switch YES Generators, are they compound wound YES, and level compounded under working conditions YES,

not compound wound state distance between generators ✓ and from switchboard ✓ Are the generators arranged to run

parallel YES, are shunt field regulators provided YES Is the compound winding connected to the negative or positive pole

NEGATIVE Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing YES Have certificates of

t for machines under 100 kw. been supplied YES and the results found as per Rule YES

ition of Generators 5- 750 KW GENERATORS FITTED IN AUX. ENGINE ROOM. 2-1000 KW GENERATORS FITTED ON FLAT ON PORT AND STARS. SIDE OF MAIN ENGINE ROOM.

the ventilation in way of generators satisfactory YES are they clear of inflammable material and protected from mechanical injury and

age from water, steam and oil YES Switchboards, where are main switchboards placed MAIN SWITCHBOARD FITTED ON FLAT

PORT SIDE OF AUX. ENGINE ROOM - SECONDARY SWITCHBOARD FITTED ON FLAT ON STARS. SIDE OF MAIN ENGINE ROOM.

they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,

in and oil YES METALLIC FRAMES WITH MICA or NICA what insulation is used for the panels BUSHES AND WASHERS, if of synthetic insulating

material is it an Approved Type ✓, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as

Rule ✓ Is the construction as per Rule, including locking of screws and nuts YES Description of Main Switchgear

each generator and arrangement of equaliser switches DOUBLE POLE CIRCUIT BREAKER WITH OVERLOAD AND REVERSE

CURRENT TRIP AND A SINGLE POLE EQUALISER SWITCH INTERLOCKED WITH THE CIRCUIT BREAKER.

the switch and fuse gear (or circuit breakers) for each outgoing circuit A DOUBLE POLE CIRCUIT BREAKER WITH OVERLOAD CURRENT TRIP.

compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard MAIN: 48

metres, DECON. 9 voltmeters, ✓ synchronising devices. For compound machines in parallel are the ammeters and reversed current

tection devices connected on the pole opposite to the equaliser connection YES Earth Testing, state means provided TWO LAMPS EARTH INDICATING SYSTEM OMMETER.

ches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES

of fuses CROCI & FARINELLI MILANO, are all fuses labelled YES If circuit breakers are provided for the generators, at what

load do they operate 50%, and at what current do the reversed current protective devices operate 10%

Boxes, Section Boards and Distribution Boards, is the construction as per Rule YES

s, are they insulated and protected as per Rule YES, if otherwise than as per Rule are they of an Approved Type ✓

maximum fall of pressure between bus bars and any point under maximum load 4 VOLTS, are the ends of all cables having a sectional

of 0.01 square inch and above provided with soldering sockets YES Are all paper insulated and varnished cambric insulated

sealed at the ends YES Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil, for a short

temperatures or risk of mechanical damage YES, are any cables laid under machines or floorplates length only, if so, are they

ately protected YES Are cables in machinery spaces, galleys, laundries, etc., lead covered YES or run in conduit YES

the "HR" type ✓ State how the cables are supported or protected SUPPORTED BY GALVANIZED PERFORATED PLATING

CLIPS - ALL CABLES LEAD COVERED, ARMOURED OR STEEL WIRE BRAIDING - WHERE CABLES EXPOSED

RISK OF MECHANICAL DAMAGE, PROTECTED BY STEEL PLATING.

lead sheaths, armouring and conduits effectually bonded and earthed YES Are all cables passing through decks and watertight

ads provided with deck tubes or watertight glands YES, where unarmoured cables pass through beams, etc., are the holes

ely bushed YES Refrigerated chambers, are the cables and fittings as per Rule YES

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Rpt. 9a.

Port of GENOA		Continuation of Report No. 19132 dated 31-12-52 on the						
ATTACHED SHEET N°1		S6 ANDREA DORIA						
POWER - AUX. ENGINE ROOM STARS. SIDE.	1	(1)	250	622	480	50	V.C.	LEAD COVERED - ARMoured.
CONNECTION TO EMERGENCY SWITCHBOARDS.	2	400	1140	1350	280	V.C.	" "	
POWER - SECTION BOARD N°1	1	80	140	299	175	V.C.	" "	
LIGHTING. ditto	1	250	186	480	175	V.C.	" "	
POWER - SECTION BOARD N°2	1	315	1119	563	110	V.C.	" "	
LIGHTING. ditto	1	200	255	446	110	V.C.	" "	
POWER - SECTION BOARD N°3	2	200	1113	832	130	V.C.	" "	
LIGHTING. ditto	1	200	184	446	130	V.C.	" "	
POWER - SECTION BOARD N°4	1	300	656	446	215	V.C.	" "	
LIGHTING. ditto	1	315	265	563	215	V.C.	" "	
POWER - SECTION BOARD N°5	1	100	187	265	290	V.C.	" "	
LIGHTING. ditto	1	315	115	563	290	V.C.	" "	
AIR CONDITIONING SETS - SECTION N°1	1	160	919	360	175	V.C.	" "	
ditto " N°2	1	500	681	801	110	V.C.	" "	
ditto " N°3	1	500	919	801	130	V.C.	" "	
ditto " N°4	1	400	685	675	215	V.C.	" "	
ditto " N°5	1	250	340	481	290	V.C.	" "	
STEERING GEAR	2	250	625	960	320	V.C.	" "	
WINDLASS - FORWARD HARPOON & CARGO WINCHES	1	500	1264	801	220	V.C.	" "	
AFT. HARPOON WINCHES - CARGO CRANES	1	500	960	801	300	V.C.	" "	
BAKERY	1	125	268	307	145	V.C.	" "	
GALLEY for Officers.	1	95	95	108	100	V.C.	" "	
GALLEY for CREW	1	200	313	416	160	V.C.	" "	
GALLEY for 1st CLASS passengers.	1	250	416	480	140	V.C.	" "	
GALLEY for 2nd CLASS passengers.	1	315	458	563	150	V.C.	" "	
GALLEY for 3rd CLASS passengers	1	200	356	416	235	V.C.	" "	
SEARCH LIGHT	1	16	70	84	240	V.C.	" "	
NAVIGATION LAMPS	1	10	31	62	140	V.C.	" "	
RADIO STATION	1	50	40	169	120	V.C.	" "	
SECTION BOARDS ON BRIDGE	1	25	75	108	140	V.C.	" "	
D.C. MOTOR - A.C GENERATOR SET N°1	1	315	550	563	80	V.C.	" "	
ditto N°2	1	315	550	563	85	V.C.	" "	
ditto N°3	1	315	550	563	90	V.C.	" "	
FROM SECONDARY SWITCHBOARDS:								
POWER - ENGINE ROOM	1	315	601	563	60	V.C.	" "	
SPARE CONNECTION TO GALLEYS CIRCUIT	2	500	1570	1600	70	V.C.	" "	
SPARE CONNECTION TO SECTION BOARDS N°2-3-4-5	3	400	1590	2025	125	V.C.	" "	
SPARE CONNECTION - POWER CIRCUIT MACH. SPACE - PORT.	4	400	2785	2700	175	V.C.	" "	
ditto - STARS. 4	4	400	2785	2700	135	V.C.	" "	
REFRIGERATING MACHINERY	5	500	3410	4000	200	V.C.	" "	
POWER - ENGINE ROOM - PORT. SIDE	2	400	1390	1350	120	V.C.	" "	
MAIN CIRCULATING PUMP N°1	2	250	1010	960	100	V.C.	" "	
INDUCED DRAUGHT FAN FOR N°3 MAIN BOILER	2	250	914	960	80	V.C.	" "	
ditto FOR N°3 MAIN BOILER	2	250	914	960	80	V.C.	" "	
POWER - BOILER ROOM - PORT SIDE	2	315	1459	1140	50	V.C.	" "	
LIGHTING - MACHINERY SPACE - PORT SIDE	1	100	106	265	30	V.C.	" "	
POWER - AUX. ENGINE ROOM - PORT SIDE	1	100	728	675	30	V.C.	" "	
SEE ATTACHED SHEET N°1-2								

PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.		MAKER.		RATED AT			PRIME MOVER.	
No. of	Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	Type.	MAKER.		
MAIN ...	5	ANSALDO - SAN GIORGIO	750	220	3410	250	OIL ENGINE	ANSALDO - STABIL. A.
	2	ditto	1000	220	4545	700	STEAM TURBINE S.G. GEARS	ditto
EMERGENCY ...	1	ditto	150	220	682	400	OIL ENGINE	ditto
ROTARY TRANSFORMER	3	ditto	1140 KVA.	220	368	1500	D.C. ELECTRIC MOTOR	ANSALDO - SAN GIORGIO
TRANSFORMER								
30 A.C. GENERATOR								

GENERATOR CABLES.								
DESCRIPTION.		KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return loop) m.	INSULATION.	PROTECTIVE COVER
No. in Parallel per Pole.	No. and Dia. of Strands. Spec. ins or eq. mm.	In the Circuit.	Rule.					
MAIN GENERATORS ...	750	5	105	3410	3400	42	V.C.	LEAD COVERED - ARMoured
" " EQUALISER ...	1000	3	405	4545	4800	21	V.C.	" "
" " EQUALISER	1000	6	500	4545	4800	70	V.C.	" "
EMERGENCY GENERATOR ...	150	1	500	682	800	12	V.C.	" "
A.C. GENERATOR SETS ROTARY TRANSFORMER : MOTOR D.C. ...	121	1	315	550	563	90	V.C.	" "
" " A.C. GENERATOR...	140 KVA.	2	100	368	520	15	V.C.	" "

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.).

DESCRIPTION.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
<u>FROM MAIN SWITCHBOARD:</u>							
SPARE CONNECTION TO SECTION BOARDS N°2-3-4-5	3	400	1590	2025	125	V.C.	LEAD COVERED - ARMoured
SPARE CONNECTION - POWER CIRCUIT MACH. SPACE - PORT.	4	400	2785	2700	175	V.C.	" "
ditto - STARS. 4	4	400	2785	2700	135	V.C.	" "
REFRIGERATING MACHINERY	5	500	3410	4000	200	V.C.	" "
POWER - ENGINE ROOM - PORT. SIDE	2	400	1390	1350	120	V.C.	" "
MAIN CIRCULATING PUMP N°1	2	250	1010	960	100	V.C.	" "
INDUCED DRAUGHT FAN FOR N°3 MAIN BOILER	2	250	914	960	80	V.C.	" "
ditto FOR N°3 MAIN BOILER	2	250	914	960	80	V.C.	" "
POWER - BOILER ROOM - PORT SIDE	2	315	1459	1140	50	V.C.	" "
LIGHTING - MACHINERY SPACE - PORT SIDE	1	100	106	265	30	V.C.	" "
POWER - AUX. ENGINE ROOM - PORT SIDE	1	100	728	675	30	V.C.	" "
SEE ATTACHED SHEET N°1-2							

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part of GENOA
ATTACHED SHEET N°2Continuation of Report No. 19132 dated 31-12-52
on the
S/S ANDREA DORIA

A)

FROM EMERGENCY SWITCHBOARDS:

CONNECTION TO BATTERY	1	315	350	363	20	V.C.	<i>LEAD COVERED- ARMOURING.</i>
CONNECTION TO MAIN SWITCHBOARDS	2	400	1140	1350	280	V.C.	" "
LIGHTING - LOWER DECKS	1	50	37	98	20	V.R.	" "
LIGHTING - INTERMEDIATE DECKS	1	50	45	98	140	V.R.	" "
EXTERNAL LIGHTING	1	20	20	54	40	V.R.	" "
LIGHTING - LIFE-BOAT DECK	1	80	81	134	200	V.R.	" "
LIGHTING - BRIDGE	1	160	70	212	340	V.R.	" "
NAVIGATION LAMPS	1	16	3	48	340	V.R.	" "
H.T. DOOR PUMP	1	32	60	73	200	V.R.	" "
EMERGENCY BILGE PUMP	1	125	220	307	260	V.C.	" "
SPRINKLER PUMP	1	160	218	360	210	V.C.	" "
RADIO STATION	1	63	40	116	320	V.R.	" "
CIRCULATING PUMP FOR EMERG. GENERATOR	1	6,3	17	30	60	V.R.	" "
SPARE CONNECTION TO SERVICES ON DECK	2	400	1140	1350	16	V.C.	" "
STEERING GEAR	2	250	646	962	40	V.C.	" "
VENT. FAN FOR EMERG. GENERATOR ROOM.	1	4	18	21	10	V.R.	" "
LIGHTING - MACHINERY SPACE	1	25	34.5	62	150	V.R.	" "
LIGHTING - UPPER DECKS	1	20	14	54	240	V.R.	" "

FROM A.C. SWITCHBOARDS:

POWER - SECTION BOARDS N°1	1	25	42	74	105	V.C.	" "
POWER - ditto N°2	1	80	222	161	70	V.C.	" "
LIGHTING - ditto N°2	1	63	142	140	60	V.C.	" "
POWER - ditto N°3	1	125	311	215	80	V.C.	" "
LIGHTING - ditto N°3	1	63	145	140	70	V.C.	" "
POWER - ditto N°4	1	40	159	102	110	V.C.	" "
LIGHTING - ditto N°4	1	63	131	140	110	V.C.	" "
POWER - ditto N°5	1	25	120	74	150	V.C.	" "
LIGHTING - ditto N°5	1	63	115	140	155	V.C.	" "
SPARE LIGHTING	1	125	215	215	70	V.C.	" "

A.L.

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Continuation of Report No. 19132 dated 31-12-52 on the
S/S ANDREA DORIAATTACHED SHEET N°3

FROM S.B. N°3 To d.c. power S.B. F312	1	250	365	282	40	V.R.	LEAD COVERED - ARMoured OR STEEL WIRE BRAIDED.
" " " " " B.B. F306	1	315	398	327	20	V.R.	" "
" " " " " lifeboat winches aft.	1	63	252	70	10	V.R.	" "
" " " " " a.c. power S.B. F.A. 313	1	100	97	109	40	V.R.	" "
" " " " " B.B. F.A. 307	1	125	170	215	20	V.C.	" "
" " " " " cinema.	1	25	44	44	20	V.R.	" "
" " " " " a.c. lighting S.B. LA.301-302-306	2	25	78	88	22	V.R.	" "
" " " " " B.B. LA.302-304-305	3	10	70	81	20	V.R.	" "
FROM S.B. N°4 To d.c. lighting S.B. N°4.101	1	6.3	20	30	40	V.R.	" "
" " " " " B.B. N°4.102-403-405	1	63	127	116	90	V.R.	" "
" " " " " B.B. N°4.104-406-407	1	20	60	54	90	V.R.	" "
" " " " " B.B. N°4.107-409	1	16	47	48	40	V.R.	" "
" " " " " B.B. N°4.110	1	10	17	38	26	V.R.	" "
" " " " " power S.B. N°F408	1	63	166	116	44	V.R.	" "
" " " " " B.B. F.403	1	125	410	307	16	V.C.	" "
" " " " " B.B. CARGO CRANES	1	100	284	155	80	V.R.	" "
" " " " " B.B. CARGO CRANES	1	100	284	155	90	V.R.	" "
" " " " " To a.c. power S.B. F.A.407	1	16	50	34	44	V.R.	" "
" " " " " B.B. F.A. 404	1	100	109	109	16	V.R.	" "
" " " " " a.c. lighting S.B. LA.401-405-406	1	63	72	140	25	V.C.	" "
" " " " " B.B. LA.402-403-404	1	10	59	54	22	V.R.	" "
FROM S.B. N°5 To d.c. lighting S.B. N°501-502	1	20	44	54	85	V.R.	" "
" " " " " B.B. N°503-504-505	1	25	54	61	50	V.R.	" "
" " " " " B.B. N.E. 506	1	6.3	17	30	20	V.R.	" "
" " " " " To d.c. power S.B. F.505	1	10	47	38	40	V.R.	" "
" " " " " charging batteries.	1	32	70	73	46	V.R.	" "
" " " " " To a.c. power S.B. F.501	1	10	35	27	8	V.R.	" "
" " " " " B.B. F.504	1	25	59	44	20	V.R.	" "
" " " " " To a.c. lighting S.B. LA.501-504-505	1	100	51	109	18	V.R.	" "
" " " " " B.B. LA.502-503	3	6.3	64	65	35	V.R.	" "

Final LIGHTING SUB-CIRCUITS. 1 1.2 3 / 5 V.R. LEAD COVERED.

A.G.

ATTACHED SHEET N°4

MOTOR CABLES

VENT. FANS FOR AUX. E.R. AND GENER.	5	11	1	10	42	62	90	V.C.	LEAD COVERED - ARMOURED OR STEEL WIRE BRAIDED.
LUBR. OIL & O.F. TRANSFER PUMPS IN AUX. E.R.	4	6	1	10	23.5	38	83	V.R.	" "
PURIFIERS IN AUX. E.R.	2	3.8	1	4	16	21	30	V.R.	" "
ditto	2	2	1	2.5	9	13	25	V.R.	" "
BALLAST & BILGE PUMPS IN AUX. E.R.	1	21	1	20	78	94	48	V.C.	" "
TURNING GEAR for oilengines	5	4	1	4	16	21	35	V.R.	" "
WINBLASS	2	108	1	200	400	416	220	V.C.	" "
WARPING WINCHES	4	86	1	160	326	360	300	V.C.	" "
CARGO WINCHES	4	25.8	1	63	130	139	20	V.R.	" "
ditto	4	50	1	100	190	196	20	V.R.	" "
LIFE BOAT WINCHES	8	15	1	25	58	67	120	V.R.	" "
CARGO CRANES	4	22	1	40	85	94	6	V.R.	" "
ditto	8	6.8	1	10	28	39	6	V.R.	" "
STEERING GEAR	2	170	2	250	625	962	10	V.C.	" "
VENTILATING MACHINES ON DECK	26	4.2	1	4	17.8	21	90	V.R.	" "
ditto	31	5	1	7	21	30	90	V.R.	" "
ditto	36	6.8	1	10	28.5	38	90	V.R.	" "
ditto	18	5.4	1	7	22.7	38	90	V.R.	" "
ditto	12	7.6	1	10	30.4	38	90	V.R.	" "
CIRCUIT. PUMP FOR EMERG. GENER. SET.	1	4	1	6.3	17	30	60	V.R.	" "
NEON COMPRESSORS FOR CARGO PLANT	2	85	1	160	310	360	24	V.C.	" "
WATER COOLING PUMPS for ditto	2	8.5	1	10	34	38	28	V.R.	" "
BRINE PUMPS for ditto	3	10	1	10	40	62	14	V.C.	" "
NEON COMPRESSORS FOR AIR COND. PLANT	4	250	2	250	900	962	57	V.C.	" "
COOLING WATER PUMPS for ditto	4	18	1	16	71	84	43	V.C.	" "
BRINE PUMPS for ditto	4	42	1	63	157	199	98	V.C.	" "
AIR CIRC. FANS FOR CARGO CHAMBERS	4	2	1	2.5	9.3	13	30	V.R.	" "
ditto	2	0.75	1	1.2	3.8	5	30	V.R.	" "
AIR CIRC. FANS FOR PROVISION CHAMBS	3	1.5	1	2.5	7.2	13	30	V.R.	" "
ditto	5	0.75	4	1.2	3.8	5	30	V.R.	" "
REFRESHING AIR FANS FOR REFRIG. CHAMBERS	3	0.25	1	1.2	1.5	5	40	V.R.	" "

J.G.

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES.

DESCRIPTION.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES. In the Circuit.	APPROX. LENGTH (lead plus return foot). m	INSULA- TION.	PROTECTIVE COVERING.
	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands sq. ins. or sq. mm.				
S.B.N°1 To d.c. lighting D.B.N°N.I.101-N.I.103	1	20	52	54	110	V.R.
" " " " A.B.N.I.102 - N.I.104	1	20	33	54	20	V.R.
" " " " A.B.N.I.106 - N.I.108	1	16	36	48	70	V.R.
" " " " A.B.N.I.107 - N.I.109	1	20	39	54	70	V.R.
" " " " A.B.N.E.110	1	16	25	48	40	V.R.
" " " " To d.c. power D.B.N°F.A.100	1	10	27	27	40	V.R.
" " " " A.B.N°F.A.102	1	4	15.5	16	20	V.R.
S.B.N°2 To d.c. lighting D.B.N°N.I.201 - N.I.204	1	40	65	85	70	V.R.
" " " " A.B.N°N.I.202	1	16	42	48	45	V.R.
" " " " A.B.N°N.I.203	1	25	25	62	50	V.R.
" " " " A.B.N°N.I.205 - N.I.207 - N.I.208	1	32	41	73	90	V.R.
" " " " A.B.N°N.I.209	1	6.3	19	30	35	V.R.
" " " " A.B.N°N.I.210 - N.I.211	1	20	54	54	100	V.R.
" " " " A.B.N°N.E.212	1	6.3	8	30	35	V.R.
" " " " To d.c. power D.B.F.A.203	1	63	82	82	8	V.R.
" " " " A.B.F.A.204	1	63	82	82	30	V.R.
" " " " To a.c. lighting D.B.L.A.201-L.A.205	1	10	76	81	20	V.R.
" " " " A.B.L.A.202-203-204	1	10	66	81	26	V.R.
" " " " To d.c. power A.B.F.202	2	125	573	614	15	V.C.
" " " " A.B.F.205	1	125	294	180	60	V.R.
" " " " D.B. Lifeboat Winches	1	63	252	116	70	V.R.
S.B.N°3 To d.c. lighting D.B.N°N.I.301-302-303	1	40	73	80	40	V.R.
" " " " A.B.N°N.I.304	1	10	30	38	8	V.R.
" " " " A.B.N°N.I.305-309	1	16	36	48	70	V.R.
" " " " A.B.N°N.I.306-307-308	1	40	36	85	60	V.R.
" " " " A.B.N°N.E.310	1	6.3	9.5	30	30	V.R.

SEE SEPARATE SHEET N°3

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.					
CIRCULATING PUMPS	2	260	2	250	470/1010	962	100
EXTRACTION PUMPS	4	22.5	1	25	92	108	80
CIRCULATING OIL CIRC. PUMPS	3	55	1	80	222	229	16
GEN. BALLAST PUMP IN E.R.	1	80	1	160	294	360	42
MILITARY & FIRE PUMPS	3	38	1	50	142	169	60
FLATING FANS FOR E.R. & B.R.	8	23	1	25	86	108	74
HAUST FANS FOR E.R.	4	11	1	10	42	62	82
CIRCULATING OIL PURIFIERS IN E.R.	2	2	1	2.5	9	13	23
GEN. GEAR IN E.R.	2	12	1	10	50	62	50
EXTRACTION PUMP for PORT TURBO.GEN.	1	41	1	50	152	169	86
V. SERVICE PUMPS	2	38	1	50	142	169	48
I. TRANSFER PUMPS	2	16	1	16	62	84	48
T.F.W. PUMPS	2	3.5	1	4	14	21	15
INKING WATER PUMPS	2	8	1	10	31	38	10
PRINKLER PUMP	1	56	1	80	214	229	10
T. DOOR PLANT PUMPS	2	7	1	10	29	38	10
WAGE PLANT PUMPS	9	18	1	16	67	84	90
SEA DRAUGHT FANS for Main BOILERS	4	62	1	100	245	265	24
ICE DRAUGHT FANS for Main BOILERS	4	235	2	250	914	962	80
SEA DRAUGHT FANS for DONKEY BOILERS	2	5	1	6.3	22	30	8
ICE DRAUGHT FANS for DONKEY BOILERS	2	26	1	25	109	108	16
TRANSFER PUMP N°1	1	50	1	63	187	199	30
TRANSFER PUMP N°2	1	28	1	32	105	126	80
PRESSURE PUMPS for MAIN BOILERS	3	20	1	20	85	94	54
PRESSURE PUMPS for DONKEY BOILERS	2	3.5	1	4	15	21	27
LAST & BILGE PUMP in B.R.	1	26	1	25	90	108	36
WATER TRANSFER PUMP	1	16	1	16	60	84	46
A.U. PUMP for AUX. CONDENSER	1	22	1	20	85	94	30
SEPARATOR-DISTILLER PLANT - ditto	2	8.5	1	10	33	62	76
ditto	2	15	1	16	57	84	76
ditto	2	2	1	2.5	9	13	38
WATER TRANSFER PUMP	1	2	1	2.5	9	13	38
EMERGENCY BINGE & FIRE PUMP	1	60	1	80	220	229	80
S.W. CIRC. PUMPS for oil-engines	3	35	1	40	133	146	22
COMPRESSORS	2	33	1	40	129	146	68

SEE ATTACHED SHEETS N°4

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Lloyd's Register
Foundation

002013-002023-0132666

The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.

All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.

The foregoing is a correct description.

ANSALDO S.A.
ANALDO S.p.A.
CANTIERI NAVALI
CANTIERI NAVALI
11 Dicembre

Electrical Contractors. Date 31-12-52

Munich Lammert

COMPASSES.

Have the compasses been adjusted under working conditions YES

ANSALDO S.A.
ANALDO S.p.A.
CANTIERI NAVALI
CANTIERI NAVALI
11 Dicembre

Builder's Signature. Date 31-12-52

Munich Lammert

Have the foregoing descriptions and schedules been verified and found correct YES

Is this installation a duplicate of a previous case No If so, state name of vessel ✓

Plans. Are approved plans forwarded herewith No If not, state date of approval 3/10/51 - 1/11/51 - 29/1/52 - 5/5/52

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith YES

General Remarks. (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

THE ELECTRICAL EQUIPMENT HAS BEEN CONSTRUCTED AND FITTED
UNDER SPECIAL SURVEY AND IS IN ACCORDANCE WITH THE APPROVED PLANS,
SECRETARY'S LETTERS AND RULE REQUIREMENTS. THE MATERIALS
AND WORKMANSHIP ARE GOOD. UPON COMPLETION, THE GENERATING
SETS, MOTORS, SWITCHGEARS AND CONTROL GEARS, APPARATUS HAVE BEEN
EXAMINED RUNNING AT FULL LOAD AND UNDER SERVICE CONDITIONS,
THE INSTALLATION TESTED IN ACCORDANCE WITH THE RULES AND FOUND
SATISFACTORY.

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators 5900 Kilowatts.

F.E. FEE £ 898.500:

for 95%
The amount of Fee ... £ 679.875

CAR FUND --- £ 30.215

When applied for,

3/2/1953

When received,

19

Travelling Expenses (if any) £ 80.910

REV. TAX. --- £ 23.250

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUES. 24 FEB 1953

Assigned Su F.E. mchly rpt.