

Rpt. 13.

No. 2990

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

21 JUL 1952

Date of writing Report 10/6/1952 When handed in at Local Office 10/6/52 Port of Valparaiso

No. in Survey held at Valparaiso Date, First Survey 5/5/52 Last Survey 29/5/1952

Reg. Book 57083 (No. of Visits 4)

on the M/V "Amadeo" ex "Sailmaker's Splice" Tons Gross 3799 Net 2160

Built at Savannah, Ga. By whom built Southeastern S.B. Corp. Yard No. When built 1945

Completed Norfolk, Va. Welding Shipyards, Inc. 1948

Owners Cia. Chilena de Nav. Interoceánica Port belonging to Valparaiso

Installation fitted by Welding Shipyards, Inc. When fitted 1948

Is 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

Plans, have they been submitted and approved no System of Distribution 3 wire system Voltage of Lighting 120

Heating 240 Power 240 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency 60

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

with a trip switch -- Generators, are they compound wound yes, and level compounded under working conditions yes

Are the generators arranged to run in parallel yes Is the compound winding connected to the negative or positive pole negative

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing survey Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule -- Position of Generators Port side Engine Room

main platform

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

damage from water, steam and oil yes Switchboards, where are main switchboards placed Port side main platform

in Engine room

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

steam and oil yes, what insulation is used for the panels dead front type, 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

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

for each generator and arrangement of equaliser switches 5 pole with links, equalizer switches midway between

the commutator coils and the series field coil.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit circuit breaker with overload device

and reverse current trip

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 4

ammeters 2 voltmeters 2 synchronising devices. For compound machines in parallel on each pole

protection devices connected on the pole opposite to the equaliser connection on negative Earth Testing, state means provided Bell

alarm, earth lamps and switches Preference Tripping, state if provided yes, and tested yes

Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an Approved Type yes

make of fuses Economy, are all fuses labelled yes If circuit breakers are provided for the generators, at what

overload do they operate 1100 and 1250, and at what current do the reverse current protective

devices operate 160 Amps. Cables, are they insulated and protected as per Rule yes

if otherwise than as per Rule are they of an Approved Type --, state maximum fall of pressure between bus bars and any point

under maximum load 4 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends yes

Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical

damage yes, are any cables laid under machines or floorplates yes, if so, are they adequately protected yes State

type of cables (if in conduit this should also be stated) in machinery spaces S.R. L. & A., galleys V.C. L. & A.

and laundries -- State how the cables are supported or protected supported in runner bars

and clipped

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

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

effectively bushed yes Refrigerated chambers, are the cables and fittings as per Rule yes

Have refrigeration fan motors been constructed under survey -- and test certificates supplied

Are the motors accessible for maintenance at all times yes



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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule... yes Emergency Supply, state position

Tween deck Port side Engine Room

Navigation Lamps, are they separately wired... yes controlled by separate double pole switches and fuses... yes Are the switches and fuses in a position accessible only to the officers on watch... yes, is an automatic indicator fitted... yes Is an alternative supply provided... yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule... natural ventilation, state battery capacity in ampere hours... 175/AMPH/hour Where required to do so does it comply with 1948 International Convention... yes

Lighting, is fluorescent lighting fitted... no If so, state nominal lamp voltage... -- and compartments where lamps are fitted... --

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof... yes

Searchlights, No. of... 2, whether fixed or portable... fixed, are they of the carbon arc or of the filament type... filament

Heating and Cooking, is the general construction as per Rule... yes, are the frames effectually earthed... yes, are heaters in the accommodation of the convection type... -- Motors, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and protected from damage from water, steam and oil... yes

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment... no Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing... --

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule... --

Lightning Conductors, where required are they fitted as per Rule... --

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with... --, are all fuses of an Approved Cartridge Type... --, make of fuse... -- Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships... -- Are all cables lead covered as per Rule... --

E.S.D., if fitted state maker... Submarine Signalling Company location of transmitter and receiver... No 1 double bottom

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations... yes

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory... yes

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	2	Crockers Wheeler Electric Mfr. Co.	250	120	1012	436	Compound	Worthington Pump & Mch. Corp.
	2							
EMERGENCY ...	1	General Electric	100	120	2907	1200	Compound	General Motors
ROTARY TRANSFORMER	2	Century Electric Co.	.8	120	8.4	1800	DNAG	Century Electric Co.

GENERATOR CABLES.

DESCRIPTION.	No. of	Kw.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ...	1	250	2	500,000	1042	1058	35	V.C.	L & A
" " EQUALISER ...	2		2	500,000	1042	1058	35	V.C.	L & A
EMERGENCY GENERATOR ...	1	100	2	400,000	385	385	15	V.C.	L & A
ROTARY TRANSFORMER: MOTOR	1	.8	1	6,530	8.4	16.5	20	S.R.	L & A
" " GENERATOR...	1	.8	1	6,530	8.4	16.5	20	S.R.	L & A

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

DESCRIPTION.	No. of	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
Main switchboard to aux. switchboard	2	400,000	385	80	V.C.	L & A
Shore connection	2	212,000	600	70	V.C.	L & A
Main switchboard to Panel No 1	1	41,700	73.6	30	V.C.	L & A
" " " No 2	1	26,300	37.2	55	V.C.	L & A
" " " No 3	1	133,000	110.5	80	V.C.	L & A
" " " No 4	1	41,700	51.7	84	V.C.	L & A
" " " No 5	1	26,300	17.1	55.5	V.C.	L & A
" " " No 6	1	16,500	13.2	150	V.C.	L & A
" " " No 7	1	41,700	18.5	84	V.C.	L & A
" " " No 8	1	26,300	18.9	60	V.C.	L & A
Refrigerating Safety Switch	1	16,500	17.3	60	V.C.	L & A

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

DESCRIPTION.	No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
			In the Circuit.	Rule.			
Engine room lighting Panel 110	1	10,400	19.83	23	30	S.R.	L & A
Main deck aft Panel 112/111	1	66,400	70	99	95	V.C.	L & A
Poop deck Panel 113	1	10,400	22	23	80	S.R.	L & A
Cargo Recept. & Floodlighting Panel 114	1	26,300	34.8	55.5	145	V.C.	L & A
Forecastle dk. main dk. Panel 115	1	26,300	23.8	55.5	295	V.C.	L & A
Bridge deck, etc. Panel 117	1	26,300	33.9	55.5	110	V.C.	L & A
Bridge search lights	1	6,530	12	16.5	125	S.R.	L & A
Windlass (change over)	1	26,300	34.8	55.5	85	V.C.	L & A
Winch Junction Box 1,2,3,4	1	350,000	299.2	350	205	V.C.	L & A
" " " 5,6,9,10	1	350,000	299.2	350	135	V.C.	L & A
" " " 13,14	1	133,000	243.1	219	70	V.C.	L & A
" " " 15,16	1	133,000	243.1	219	100	V.C.	L & A

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.	
Winches, 12 in all	1	50	133,000	187	219	20	V.C.	L & A
Windlass	1	50	133,000	187	219	275	V.C.	L & A
Steering gear	1	10	41,700	38	84	20	V.C.	L & A
Refrigerating Compressors	1	15	26,300	56	55.5	25	V.C.	L & A
" " "	1	10	16,500	37.5	46	20	V.C.	L & A
Fresh water circ. pump	1	15	26,300	55	55.5	70	V.C.	L & A
Salt water circ. pump	1	9.4	16,500	36	46	80	V.C.	L & A
Priming Pumps	1	2	4,110	8.4	11.5	95	S.R.	L & A
Lub. oil pump	1	24	133,000	144	184	110	V.C.	L & A
Fuel oil transfer	1	15	26,300	56	55.5	95	V.C.	L & A
Bilge pump	1	7.5	16,500	28.1	46	85	V.C.	L & A
Fire & Gen. Service pump	1	40	133,000	150	184	90	V.C.	L & A
Fire pump	1	40	133,000	150	184	85	V.C.	L & A
Bilge Ballast pump	1	7.5	16,500	28.1	46	80	V.C.	L & A
Sanitary pump	1	7.5	16,500	30	46	90	V.C.	L & A
Fresh Drinking & water pump	1	3/4	4,110	3.2	11.5	60	S.R.	L & A
Fresh water make up circ. pump	1	1	4,110	4.1	11.5	35	S.R.	L & A
Make up air compressors	1	5	10,400	19	23	35	S.R.	L & A
Main air compressor	1	25	66,400	92	99	45	V.C.	L & A
Lub. oil purifier	1	1 1/2	6,530	10.7	11.5	25	S.R.	L & A
Lub. oil purifier	1	1 1/2	6,530	10.7	11.5	20	S.R.	L & A
Fuel oil purifiers (2)	1	1 1/2	6,530	10.7	16.5	20	S.R.	L & A
Fuel oil booster pumps	1	1	4,110	4.5	11.5	50	S.R.	L & A
Turning gear	1	7 1/2	16,500	19.8	46.6	55	V.C.	L & A

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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.

Electrical Contractors. Date

COMPASSES.

Have the compasses been adjusted under working conditions. yes

Builder's Signature. Date

Have the foregoing descriptions and schedules been verified and found correct. yes

Is this installation a duplicate of a previous case. yes If so, state name of vessel. M/V "Antártico"

Plans. Are approved plans forwarded herewith. -- If not, state date of approval. Plan forwarded with "Antártico"

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith. no

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)
 The electrical equipment of this vessel was originally fitted under the special supervision of the Surveyors to the American Bureau of Shipping and classed with that Society, and has now been examined and tested by me for classification with this Society.

The condition and the standard of workmanship of this installation as far as now seen is in good condition and eligible in my opinion for a classed vessel.

note adm 11-8-52

Total Capacity of Generators 600 Kilowatts.

The amount of Fee ... £ : : When applied for, 19

Charged Rpt. 9

When received,

Travelling Expenses (if any) £ : : 19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 12 AUG 1952

Assigned

2m.8.50.—TRANSFER. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

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