

YACHT.

Rpt. 13.

20102
No. 36115

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 1st July 1935 When handed in at Local Office 1st July 1935 Port of NEW YORK Received at London Office 13 JUL 1935

No. in Survey held at NEW YORK & STAMFORD, Conn Date, First Survey 19 Nov 1934 Last Survey 25 June 1935
Yt Reg. Book. 924 Std.
63 AYR. on the tw. sc. motor yacht "CAROLITA" ex RIPPLE (Number of Visits.....)

Built at Kiel By whom built F. Krupp Germania Werft Yard No. 463 When built 1923

Owners F. DONALD COSTER Port belonging to BRIDGEPORT, Conn.

Electric Light Installation fitted by KRUPP Contract No. 463 When fitted 1923

Is the Vessel fitted for carrying Petroleum in bulk No.

System of Distribution

2 WIRE

Pressure of supply for Lighting 110 volts, Heating 110 volts, Power 110 volts.

Direct or Alternating Current, Lighting D.C. Power D.C.

If alternating current system, state frequency of periods per second

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off Yes

Generators, do they comply with the requirements regarding temperature rise YES, are they compound wound YES

are they over compounded 5 per cent. No, if not compound wound state distance between each generator

Where more than one generator is fitted are they arranged to run in parallel No, is an adjustable regulating resistance fitted in series with each shunt field YES

Have certificates of test results for machines under 100 kw. been submitted and approved YES Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing YES

Are all terminals accessible, clearly marked, and furnished with sockets YES, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched YES

Are the lubricating arrangements of the generators as per Rule YES

Position of Generators 2 SEA 2 PORT, is the ventilation in way of the generators satisfactory YES, are they clear of all inflammable material YES, if situated near unprotected

woodwork are they protected from mechanical injury and damage from water, steam or oil YES, are their axes of rotation fore and aft YES

are the generators protected from mechanical injury and damage from water, steam or oil YES, are the prime movers and their respective generators

Earthed, are the bedplates and frames of the generating plant efficiently earthed YES, are the prime movers and their respective generators

in metallic contact YES Main Switch Boards, where placed E.R. PORT SIDE

If the generators and main switchboards are not placed in the same compartment, is each generator provided with

a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard YES

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes YES, are they protected from mechanical

injury and damage from water, steam or oil YES, if situated near unprotected woodwork or other combustible material, state distance of same

horizontally from or vertically above the switchboards YES, are they constructed wholly of durable, non-ignitable non-absorbent

materials YES, is all insulation of high dielectric strength and of permanently high insulation resistance YES

is it of an approved type YES, if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other

non-hygroscopic insulating material, and the slab similarly insulated from its framework YES, is the non-hygroscopic insulating material of an approved

type YES, and is the frame effectively earthed YES Are the fittings as per Rule regarding:— spacing or shielding of live parts

YES, accessibility of all parts YES, absence of fuses on back of board YES, temperature rise of

omnibus bars YES, individual fuses to voltmeter, pilot or earth lamp YES, are moving parts of switches alive in the

"off" position YES, are any fuses fitted on the live side of

switches YES, are all screws and nuts securing connections effectively locked YES

Main Switchgear, description of switchgear for each generator and each outgoing circuit and arrangement of equalizer switches

DOUBLE POLE SWITCH & 2 FUSES ON EACH CIRCUIT. NO EQUALIZERS

Are turbine driven generators fitted with emergency trip switch as per rule YES Are cupboards containing switchboards composed of

fire-resisting material or lined with approved material YES Instruments on main switchboard 3 ammeters 3

voltmeters YES, synchronising device for paralleling purposes. For compound machines is the ammeter connected on the opposite pole to equaliser connection

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

GROUND LAMPS Switches, Circuit Breakers and Fusible Cut-outs, YES

do these comply with the requirements of the Rules YES, are the fusible cutouts of an approved type YES

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current protection devices been tested under working conditions... Joint Boxes, Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES

Cables: Single, twin, concentric, or multicore... are the cables insulated and protected as per Tables IV, V, X or XI of the Rules YES

If the cables are insulated otherwise than as per Rule, are they of an approved type... Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load

area of 0.04 square inch and above provided with soldering sockets... Paper Insulated and Varnished Cambric Insulated Cables.

If conductors are paper or varnished cambric insulated, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound... on waterproof insulating tape Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage YES Are cables in machinery spaces, galleys, lavatories, bathrooms and lavatories lead covered or run in conduit YES

Support and Protection of Cables, state how the cables are supported and protected LEADED & ARMORED

If cables are run in wood casings, are the casings and caps secured by screws... are the cap screws of brass... are the cables run in separate grooves If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII YES

Refrigerated Chambers, are the cables and fittings in accordance with the special requirements

Joints in Cables, state if any, and how made, insulated, and protected

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands YES Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed state the material of which the bushes are made

Earthing Connections, state what earthing connections are fitted and their respective sectional areas

are their connections made as per Rule YES

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule YES Emergency Supply, state position and method of control of the emergency supply and how the generator is driven

Navigation Lamps, are these separately wired YES, controlled by separate switch and separate fuses YES, are the fuses double pole YES are the switches and fuses grouped in a position accessible only to the officers on watch YES

has each navigation lamp an automatic indicator as per Rule YES Secondary Batteries, are they constructed and fitted as per Rule YES

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight YES are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected NO

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected NO

where are the controlling switches situated

are all fittings suitably ventilated... are all switches and lampholders constructed wholly of non-ignitable, non-absorbent materials

Heating and Cooking Appliances, are they constructed and fitted as per Rule... are air heaters constructed and fitted as per Rule

Searchlight Lamps, No. of 1, whether fixed or portable FIXED, are their fittings as per Rule YES

Are Lamps, other than searchlight lamps, No. of NONE, are their live parts insulated from the frame or case... are their fittings as per Rule

Motors, are their working parts readily accessible YES, are the coils self-contained and readily removable for replacement YES

are the brushes, brush holders, terminals and lubricating arrangements as per Rule YES, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material YES, are they protected from mechanical injury and damage from water, steam or oil YES are their axes of rotation fore and aft YES, if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type

if not of this type, state distance of the combustible material horizontally or vertically above the motors and

have machines of over 100 BHP been inspected by the Surveyors during manufacture and testing Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule YES

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule YES Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings

are all fuses of the filled cartridge type... are they of an approved type

If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed type approved by the Home Office

Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule

YACHT.

PARTICULARS OF GENERATING PLANT.									
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.		
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.	
MAIN ...	1	7 1/2	110	67	275	BELT FROM CRANK SHAFT			
AUXILIARY ...	1	20	.	180	1200	3 CYL FAIRBANKS HORSE	DIESEL OIL		
EMERGENCY ...	1	9	.	80	550	2 CYL MIANUS	" "		
ROTARY TRANSFORMER									

GENERATOR, LIGHTING AND HEATING CONDUCTORS.										
DESCRIPTION.	No. per Pole.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	Circuit.	Rule.				
MAIN GENERATOR ...										
EQUALISER CONNECTIONS ...										
AUXILIARY GENERATOR ...										
EMERGENCY GENERATOR ...										
ROTARY TRANSFORMER MOTOR GENERATOR ...										
ENGINE ROOM ...						FUSED 15 AMPS				
BOILER ROOM ...						"				
AUXILIARY SWITCHBOARDS ...						"				
OWNERS STATEROOM						"				
STATE ROOMS	S					"				
"	P					"				
SMOKING ROOM	P					"				
"	S					"				
ACCOMMODATION DINING RM.						"				
DINING ROOM	P					"				
PILOT HOUSE						"				
OUTSIDE LIGHTS						"				
PANTRY						"				
WIRELESS RADIO						"				
SEARCHLIGHT ...						35				
MASTHEAD LIGHT ...						15				
SIDE LIGHTS ...										
COMPASS LIGHTS ...										
POOP LIGHTS ...										
CARGO LIGHTS ...										
ARC LAMPS ...						15				
HEATERS ...										
CREWS QUARTERS										

MOTOR CONDUCTORS.										
DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
BALLAST PUMP ...						FUSED 60				
MAIN BILGE LINE PUMPS ...										
GENERAL SERVICE PUMP ...						60				
EMERGENCY BILGE PUMP ...										
SANITARY PUMP ...										
CIRC. SEA WATER PUMPS ...										
CIRC. FRESH WATER PUMPS ...										
AIR COMPRESSOR ...						60				
FRESH WATER PUMP ...						35				
ENGINE TURNING GEAR ...										
ENGINE REVERSING GEAR ...										
LUBRICATING OIL PUMPS ...										
OIL FUEL TRANSFER PUMP ...										
WINDLASS ...						60				
WINCHES, FORWARD ...										
WINCHES, AFT ...										
STEERING GEAR—										
(a) MOTOR GENERATOR ...										
(b) MAIN MOTOR ...										
WORKSHOP MOTOR ...										
VENTILATING FANS ...						20				
Hot Water Pump						15				
Boat Hoist						35				
Ice Machine						35				

All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass

alt 50 ft

Distance between electric generators or motors and steering compass

" 50 "

The nearest cables to the compasses are as follows:—

A cable carrying $\frac{1}{4}$ Ampères close to feet from standard compass close to feet from steering compass.

Binnacle lights

A cable carrying 5 Ampères alt 10 feet from standard compass alt 6 feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power yes

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted yes.

The maximum deviation due to electric currents was found to be degrees on course in the case of the standard compass, and degrees on course in the case of the steering compass.

Builder's Signature.

Date

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

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation was not built under Special Survey. It has however been examined & tested & as far as can be seen it is now in good & safe working condition, & it complies with the Rules.

In my opinion, this electric installation is now in good & safe working condition & eligible, to receive the notation
ELEC. LIGHT

Total Capacity of Generators $36\frac{1}{2}$ Kilowatts.

FOR W. H. RUNHAM & SELF

The amount of Fee ... £ Charged on : When applied for, 19.....
Travelling Expenses (if any) £ Hull Rpt : When received, 19.....

John S. Heck.
Surveyor to Lloyd's Register of Shipping.

Committee's Minute:

NEW YORK JUL 3 - 1935

Assigned Elec. light



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