

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 19 When handed in at Local Office 21. 10. 1924 Port of *London*No. in Survey held at *Stockton-on-Tees* Date, First Survey *while* Last Survey *Building* 19
Reg. Book.on the *S.S. "TAUNTON"*Built at *Stockton-on-Tees* By whom built *Craig Taylor & Co. Ltd.* Yard No. *214* When built *1924*Owners *H. Harrison (Shipping) Ltd.* Port belonging to *London*Electric Light Installation fitted by *Falconar, Cross & Co.* Contract No. *A1289* When fitted *1924*
*Newcastle-on-Tyne*System of Distribution *Two wire*Pressure of supply for Lighting *110* volts, Heating — volts, Power — volts.Direct or Alternating Current, Lighting *direct* Power —

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 overload *yes*, are they compound wound *yes*are they over compounded 5 per cent. *yes*, if not compound wound state distance between each generator —

Where more than one generator is fitted are they arranged to run in parallel —, is an adjustable regulating resistance fitted in series with each shunt field —

Are all terminals accessible and clearly marked *yes*, are they so spaced or shielded that they cannot be accidentally earthed, or short circuited *yes* Are the lubricating arrangements of the generators as per Rule *yes*Position of Generators *In engine room starboard side*is the ventilation in way of the generators satisfactory *yes*, are they clear of all inflammable material *yes*if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators — and —, are the generators protected from mechanical injury and damage from water, steam or oil *yes*are their axis of rotation fore and aft *yes*Earthing, 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 *In engine room on after bulkhead starboard side*

If the generators and main switchboard 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 —

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 — and —are they constructed wholly of durable, incombustible non-absorbent materials *yes*, is all insulation of high dielectric strength and of permanently high insulation resistance *yes*, if semi-insulating material is used, are all conducting parts connected to one poleinsulated from the slab with mica or micanite and the slab similarly insulated from its framework *yes*, and is the frame effectively earthed *yes* Are the following fittings as per Rule, viz.: — spacing or shielding of live parts*yes*, accessibility of all parts *yes*, absence of fuses on back of board *yes*, proportion of omnibus bars *yes*, individual fuses to voltmeter, pilot or earth lamp *yes*, connections of switches *yes*Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches *a fuse on each pole & a double pole linked switch for the generator. a fuse on each pole & a single pole switch on one pole for each outgoing circuit.*Instruments on main switchboard *one* ammeters *one* voltmeters — synchronising device for paralleling purposes.

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

*Earth testing lamps.*Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules *yes*Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule *yes*

Insulation of Cables, state type of cables, single or twin single are the cables insulated and protected as per Tables III or IV of the Rules yes

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 2.9 Volts

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 square inch and above provided with soldering sockets

Paper Insulated Cables. *If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound*

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

Support and Protection of Cables, *state how the cables are supported and protected* *Lead covered & armoured and*
Lead covered cables supported by metal clips!

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 VI *Yes*

Refrigerated Chambers, if lights are fitted, 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

Bushes in Beams and Non-watertight Positions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed *Yes* ✓ state the material of which the bushes are made *fibre* ✓

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

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 ✓.

as each navigation lamp an automatic indicator as per Rule yes ✓, are separate screens provided for the use of oil and electric side lights yes ✓.

are separate oil lanterns provided for the mast head lights and side lights yes ✓

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

re any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected.....

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 ✓

here are the controlling switches situated _____

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

rc Lamps, other than searchlight lamps, No. of _____, are their live parts insulated from the frame or case _____, are their fittings as per Rule _____

motors, are their working parts readily accessible — , **are the coils self-contained and readily removable for replacement** —

the brushes, brush holders, terminals and lubricating arrangements as per Rule _____, are the motors placed in well-ventilated compartments in which

Flammable gases cannot accumulate and clear of all inflammable material

are they protected from mechanical injury and damage from water, steam or oil. — are their axis of rotation fore and aft. —

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 _____

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed as per Rule..... —

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

tion and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings..... 11

portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office.....

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	5	110 ✓	45 1/2 ✓	480	Open type steam engine		
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

LIGHTING AND HEATING CONDUCTORS.

[illegible]

MOTOR CONDUCTORS.

[illegible]

All Conductors are of annealed copper conforming to British Standard Specification No. 7.
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
The foregoing is a correct description.

Salomon Cronache

Electrical Engineers.

Date *3.4.24.*

COMPASSES.

Distance between electric generators or motors and standard compass *52 ft.* ✓

Distance between electric generators or motors and steering compass (*apt*) *95 ft.* ✓

The nearest cables to the compasses are as follows:—

A cable carrying *9* Amperes *8* feet from standard compass — feet from steering compass.

A cable carrying *.25* Amperes *2* feet from standard compass *2* feet from steering compass.

A cable carrying *1* Amperes — feet from standard compass *10* 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 *nil* degrees on *any* course in the case of the standard compass, and *nil* degrees on *any* course in the case of the steering compass.

For CRAIG, TAYLOR & CO. LIMITED,

John Taylor Secretary

Builder's Signature.

Date *Oct 30th /24*

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 has been fitted in accordance with the Rules: is of good materials & workmanship and on completion was examined under full working conditions and found satisfactory*)

It is submitted that
this vessel is eligible for
THE RECORD. *Blue light*

24/10/24

Total Capacity of Generators *5* Kilowatts

The amount of Fee ... £ *5-0-0*

Travelling Expenses (if any) £

When applied for,

14.4.1924

When received,

14.4.1924

Wm Morrison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned