

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) JUE OCT. 17 1922

Date of writing Report 9/10/22 When handed in at Local Office 16/10/22 Port of NEWCASTLE-ON-TYNE
 No. in Survey held at Newcastle Date, First Survey 25/9/22 Last Survey 9/10/1922
 Reg. Book 244 (Number of Visits.....)
 on the S.S. British Scout Tons { Gross 1540
 Net 840
 Built at Newcastle By whom built Swan Hunter & Wigham Rich^d Yard No. 1136 When built 1922
 Owners British Tanker Co Ltd Port belonging to London
 Electric Light Installation fitted by Swan Hunter & Wigham Richardson Contract No. 1136 When fitted 1922

System of Distribution Double 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 yes
 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 Generator Dynamo platform engine room after end 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 Board, where placed Dynamo platform engine room after end 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 pole insulated 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 Double pole switch & fuses for dynamo mains & each outgoing circuit.
 Instruments on main switchboard 1 ammeters 1 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 lamps connected to earth through switch & fuses for each pole.
 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 Distribution boxes are cast iron fitted with "Lid" type fuses.

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

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 3.5 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 yes

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 main cables run in galvanised iron pipe under fore & aft gangway provided with watertight draw in expansion boxes

Support and Protection of Cables, state how the cables are supported and protected pipes clipped to fore & aft gangway. Lead covered cables clipped with brass clips

If cables are run in wood casings, are the casings and caps secured by screws yes, are the cap screws of brass yes, are the cables run in separate grooves yes. 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 none made

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 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

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 none fitted

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, 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

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 yes in pump room aft switches in accommodation, how are the cables led in galvanised iron pipe wholly outside the pump room.

where are the controlling switches situated in accommodation

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

Arc 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 —

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

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 —

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 on fore mast

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 yes

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

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	7.7	110	70	350	single cylinder steam engine			
AUXILIARY									
EMERGENCY									
ROTARY TRANSFORMER									

LIGHTING AND HEATING CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Ampères.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	MAIN GENERATOR...	2	.06	19	.064	70	28	rubber	Lead covered
	AUXILIARY GENERATOR								
	EMERGENCY GENERATOR								
	ROTARY TRANSFORMER...	2	.02214	7	.064	15	340	do	Lead covered, armoured & braided
	AUXILIARY SWITCHBOARDS								
	ENGINE ROOM	2	.00455	7	.029	7	40	do	do
	BOILER ROOM								
	Midship forward & navigation	2	.01046	7	.044	23	300	do	do
	Aft Accommodation	2	.00701	7	.036	14	150	do	do
	WIRELESS	2	.02214	7	.064	15	340	do	do
	SEARCHLIGHT								
	MASTHEAD LIGHT...	2	.00194	3	.029	1.12	200	do	do
	SIDE LIGHTS...	2	.00194	3	.029	1.12	100	do	Lead covered, armoured & braided
	COMPASS LIGHTS	2	.00194	3	.029	.57	80	do	do
	STERN LIGHTS	2	.00194	3	.029	1.12	400	do	Lead covered, armoured & braided
	CARGO LIGHTS	2	.003	70	.0076	3.2	160	do	Cat type flexible
	ARC LAMPS								
	HEATERS								

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Ampères.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP								
	MAIN BILGE LINE PUMPS								
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP								
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP								
	ENGINE TURNING GEAR								
	ENGINE REVERSING GEAR								
	LUBRICATING OIL PUMPS								
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR								
	WORKSHOP MOTOR								
	VENTILATING FANS								

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.

FOR
SWAN, HUNTER & WIGHAM RICHARDSON, LTD.
Lighting Circuits

Electrical Engineers.

Date *11th Oct 1922.*

COMPASSES.

Distance between electric generators or motors and standard compass *135 feet*

Distance between electric generators or motors and steering compass *30 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *28* Amperes *1* feet from standard compass *1* feet from steering compass.

A cable carrying *4.5* Amperes *10* feet from standard compass *10* feet from steering compass.

A cable carrying _____ Amperes _____ 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 *nil* degrees on *each* course in the case of the standard compass, and *nil* degrees on *each* course in the case of the steering compass.

FOR
SWAN, HUNTER & WIGHAM RICHARDSON, LTD.

G. J. Huxley

Builder's Signature.

Date *13 October 1922.*

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. _____)

The above installation is in accordance with the Society's Rules. The vessel is eligible in my opinion for notation elec light, wireless

THE RECORD

Elec. Light

XAB

2/11/22

Total Capacity of Generators *7.7* Kilowatts

The amount of Fee ... £ *8* : 0 : _____

When applied for,
14/10/22

Travelling Expenses (if any) £ : : _____

When received,
See deposit book

W. T. Badger

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Im. 3.22—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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Foundation