

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

25 FEB 1944

Date of writing Report... 15 Feb 1944 When handed in at Local Office... 25 FEB 1944 Port of... IPSWICHNo. in Survey held at... LOWESTOFT Date, First Survey... 10 Nov. 1943 Last Survey... Feb. 14 1944
Reg. Book. (Number of Visits.....)on the... N.A.V. "CHATTENDEN" Tons { Gross 322.02
Net 144.09Built at... LOWESTOFT By whom built... RICHARDS IRONWORKS Yard No. 311 When built... 1944Owners... ADMIRALTY Port belonging to.....Electrical Installation fitted by... MAHN EGERTON & CO. LTD. NORWICH Contract No. ✓ When fitted... 1944Is vessel fitted for carrying Petroleum in bulk... NO Is vessel equipped with D.F. ✓ E.S.D. ✓ Gy.C. ✓ Sub.Sig. ✓Have plans been submitted and approved... YES System of Distribution... TWO WIRE Voltage of supply for Lighting... 110Heating... ✓ Power... ✓ Direct or Alternating Current, Lighting... DIRECT Power... ✓ If Alternating Current state periodicity... ✓ Prime Movers,has the governing been tested and found as per Rule when full load is suddenly thrown on and off... YES Are turbine emergency governors fitted with atrip switch as per Rule... ✓ Generators, are they compound wound... YES are they level compounded under working conditions... YES,if not compound wound state distance between generators... ✓ and from switchboard... ✓ Where more than one generator is fitted are theyarranged to run in parallel... NO are shunt field regulators provided... YES Is the compound winding connected to the negative or positive poleNEGATIVE ✓ Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing... ✓ Have certificates oftest for machines under 100 kw. been supplied... YES and the results found as per rule... YES Are the lubricating arrangements and the constructionof the generator as per rule... YES Position of Generators... 3 KW. GEN. PORT SIDE ENGINE ROOM, 7 1/2 KW D.G. GEN. STARBOARDENGINE ROOM, is the ventilation in way of generators satisfactory... YES are they clear of inflammable material... YES, if situatednear unprotected combustible material state distance from same horizontally... ✓ and vertically... ✓, are the generators protected from mechanicalinjury and damage from water, steam and oil... YES, are the bedplates and frames earthed... YES and the prime movers and generators in metalliccontact... YES Switchboards, where are main switchboards placed... E.R. FORWARD BULKHEAD.are they in accessible positions, free from inflammable gases and acid fumes... YES, are they protected from mechanical injury and damage from water, steamand oil... YES, if situated near unprotected combustible material state distance from same horizontally... ✓ and vertically... ✓, what insulationmaterial is used for the panels... SINDANYO, if of synthetic insulating material is it an Approved Type... YES, if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... ✓ Is the frame effectually earthed... YESIs the construction as per Rule... YES, including accessibility of parts... YES, absence of fuses on the back of the board... YES, individual fusesto pilot and earth lamps, voltmeters, etc... YES locking of screws and nuts... YES, labelling of apparatus and fuses... YES, fuses on the "dead"side of switches... YES Description of Main Switchgear for each generator and arrangement of equaliser switches... 30 AMP D.P. KNIFE

SWITCH FOR MAIN SWITCH WITH 15 AMP. D.P. KNIFE SWITCHES FOR OUTGOING

CIRCUITS.

and for each outgoing circuit.....

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... YES Instruments on main switchboard... ONEammeters... ONE voltmeters... ✓ synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection... ✓ Earth Testing, state means provided... EARTH LAMPS WITH SWITCH & FUSE ON EACH POLESwitches, Circuit Breakers and Fuses, are they as per Rule... YES, are the fuses an approved type... YES, are all fuses labelled asper Rule... YES If circuit breakers are provided for the generators, at what overload current did they open when tested... ✓, are the reversed currentprotection devices connected on the pole opposite to the equaliser connection... ✓, have they been tested under working conditions, and at what currentdid they operate... ✓ Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... YESCables, are they insulated and protected as per the appropriate Tables of the Rules... 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... 1 VOLT, are the ends of all cables having a sectional area of 0.04square inch and above provided with soldering sockets... YES Are paper insulated and varnished cambric insulated cables sealed at the ends... ✓

and found satisfactory.....YES.....

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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.

C. Wilson & Mann Esqrs. Ld.

Electrical Engineers.

Date *9-2-44*

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum distance between electric generators or motors and steering compass.....

The nearest cables to the compasses are as follows:-

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

A cable carrying Amperes feet from standard compass 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

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

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..... *YES* ✓ If so, state name of vessel *'EMPIRE SPORTSMAN'*

Plans. Are approved plans forwarded herewith..... *NO* If not, state date of approval..... *17-5-41*

Certificates. Are certificates of test for motors engaged on essential 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 installation has been installed in accordance with the approved plans & Rule requirements.

The materials & workmanship are sound & of good description.

Insulation tests have been made throughout with satisfactory results.

The installation has been examined under full working conditions & found satisfactory.

NOTE:- The 7½ K.W. generating set for D.G. is an Admiralty supply, and has not been built under the Society's supervision. The D.G. installation has been installed under Admiralty supervision.

Total Capacity of Generators *3 + 7½* *04 GEN.* Kilowatts.

The amount of Fee *+25%* £ *6* : *5* : *0*

When applied for, *25 FEB 1944*

Travelling Expenses (if any) £ : :

When received.

FRI. 3 MAR 1944

Committee's Minute

Assigned.....

See fe machs rpl

J.E. Turpie

Surveyor to Lloyd's Register of Shipping.



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