

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

31 JAN 1942

Registered at London Office

Date of writing Report... 11 Jan 1942 When handed in at Local Office... 26/1/42 Port of... Newcastle on Tyne

No. in Survey held at... S. Shields Date, First Survey... 15/1/41 Last Survey... 8/1/42 1942
Reg. Book.

36376 on the... EMPIRE SQUIRE

Built at... J. Readhead & Sons Ltd By whom built... J. Readhead & Sons Ltd Yard No... 625 When built... 1941-2

Owners... Ministry of War Transport Port belonging to... South Shields

Electrical Installation fitted by... Messrs Clark Chapman & Co Ltd Contract No... When fitted... 1941-2

Is vessel fitted for carrying Petroleum in bulk... Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. No Sub.Sig. No

Have plans been submitted and approved... Yes System of Distribution... Two main Voltage of supply for Lighting... 110

Heating... No Power... No Direct or Alternating Current, Lighting... Dist. 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 a

trip switch as per Rule... Generators, are they compound wound... Yes, are they level compounded under working conditions... Yes,

not compound wound state distance between generators... and from switchboard... Where more than one generator is fitted are they

arranged to run in parallel... No, are shunt field regulators provided... Yes Is the compound winding connected to the negative or positive pole

Yes? Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing... Have certificates of

test for machines under 100 kw. been supplied... Yes and the results found as per rule... Yes Are the lubricating arrangements and the construction

of the generators as per rule... Yes Position of Generators... Engine room starboard side aft

is the ventilation in way of generators satisfactory... Yes are they clear of inflammable material... Yes, if situated

near unprotected combustible material state distance from same horizontally... and vertically... are the generators protected from mechanical

injury and damage from water, steam and oil... Yes, are the bedplates and frames earthed... Yes and the prime movers and generators in metallic

contact... Yes Switchboards, where are main switchboards placed... Engine room after bulk head starboard

side.

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

and oil... Yes, if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulation

material is used for the panels... "Ebonyl Linsang" if of synthetic insulating material is it an Approved Type... Yes, if of

semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Is the frame effectually earthed... Yes

Is the construction as per Rule... Yes, including accessibility of parts... Yes, absence of fuses on the back of the board... Yes, individual fuses

to 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... Double pole, quick

break knife switches and double pole fuse.

and for each outgoing circuit... Single pole, quick break knife switches and double pole

fuses.

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 is the ammeter connected on the pole opposite to the

equaliser connection... Earth Testing, state means provided... earth lamps connected to earth via switch gear

Switches, Circuit Breakers and Fuses, are they as per Rule... Yes, are the fuses an approved type... Yes, are all fuses labelled as

per Rule... Yes If circuit breakers are provided for the generators, at what overload current did they open when tested... are the reversed current

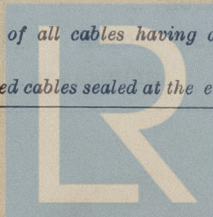
protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current

did they operate... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... Yes

Cables, 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... Yes

state maximum fall of pressure between bus bars and any point under maximum load... less than 2.0, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... Yes Are paper insulated and varnished cambric insulated cables sealed at the ends... Yes



and found satisfactory.....

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (feet plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Bale.			
MAIN GENERATOR	2x15	1	19/083	136.5	191	40x50'	V.C.	LCx13
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOE								
" " GENERATOR								

[illegible][illegible][illegible]

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

For CLARKE, CHAPMAN & Co. LTD.

W. W. Taylor

Electrical Engineers.

Date 20/1/42

COMPASSES,

Minimum distance between electric generators or motors and standard compass 130'

Minimum distance between electric generators or motors and steering compass 125'

The nearest cables to the compasses are as follows:—

A cable carrying 14 Ampères on the feet from standard compass feet from steering compass.

A cable carrying 14 Ampères feet from standard compass on the 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 nil degrees on every course in the case of the standard compass, and nil degrees on JOHN DEARHEAD & SONS LTD course in the case of the steering compass.

John Dearhead & Sons Ltd

Builder's Signature.

Date 23.1.42

Is this installation a duplicate of a previous case Yes

MANAGING DIRECTOR.

If so, state name of vessel Empire Stevenson

Plans. Are approved plans forwarded herewith If not, state date of approval

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 electrical

equipment of this vessel has been installed under special survey and in accordance with the approved plans and with the specification. The materials used are of good quality and the workmanship is good. On completion the equipment was operated under working conditions with satisfactory results and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Noted

24
5/2/42

Total Capacity of Generators 30 Kilowatts.

Sld a/c

The amount of Fee £ 28 : 2 6 19.1.42

Travelling Expenses (if any) £ : : When received. 19.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 10 FEB 1942

Assigned

See NWC 26.100132



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