

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report.....19..... When handed in at Local Office.....126 JAN 1943..... Port of.....NEWCASTLE-ON-TYNE.....

No. in Survey held at..... Reg. Book..... Date, First Survey.....21 Dec. 1942..... Last Survey.....11 Jan 1943..... (Number of Visits.....4.....)

..... on the.....EMPIRE FORTUNE..... Tons { Gross.....6140 Net.....4103

Built at.....South Shields..... By whom built.....John Readhead & Son Ltd..... Yard No.....531..... When built.....1942.....

Owners..... Port belonging to.....

Electrical Installation fitted by.....Blacks & Chapman 160 Ltd..... Contract No.....531..... When fitted.....1942.....

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

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

Heating..... Power.....110..... Direct or Alternating Current, Lighting.....D.C..... Power.....D.C..... 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.....

if 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

.....negative..... 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.....

..... 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 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.....Interohm..... 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

switches and double pole fuses.....

and for each outgoing circuit.....Single pole double throw switch and double pole fuses.....

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule.....YES..... Instruments on main switchboard.....2

ammeters.....2..... voltmeters..... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection..... Earth Testing, state means provided.....both lamps connected to E. through switches and fuses

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.....

state maximum fall of pressure between bus bars and any point under maximum load.....44.4V..... are the ends of all cables having a sectional area of 0.2

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



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. Woodeson

Electrical Engineers.
Chairman.

Date 14/1/43.

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 *1/4* Ampères *inside* feet from standard compass feet from steering compass.

A cable carrying *1/4* Ampères feet from standard compass *inside* 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

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 *NIL* degrees on *EVERY* course in the case of the standard compass, and *NIL* degrees on *EVERY* course in the case of the steering compass.

FOR JOHN READHEAD & SONS LTD.

John Readhead

Builder's Signature.

Date 22.1.43.

MANAGING DIRECTOR.

Is this installation a duplicate of a previous case *NO* If so, state name of vessel

Plans. Are approved plans forwarded herewith *NO* If not, state date of approval *27-11-42*.

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 was installed under special survey and in accordance with the approved plan. The materials used were of good quality and the workmanship was satisfactory.

On completion, the installation was tested and operated under working conditions. The insulation resistance measured and the whole found satisfactory.

The equipment, as installed, is, in my opinion, suitable for a classed vessel.

Noted

R.F.

16/2/43

Total Capacity of Generators *30* Kilowatts.

The amount of Fee *See 25* £ *25 : 3/6* (Including Specified)

When applied for, *27 JAN 1943*

Travelling Expenses (if any) £ : : *SRT*

When received, *10.2.43*

ADDIMENT

Surveyor to Lloyd's Register of Shipping.

FRI. 5 MAR 1943

Committee's Minute

Assigned *See Nwc. 78. 101040*

5m, 4.38.—Transfer. (MADE AND PRINTED IN ENGLAND.) (The Surveyors are requested not to write on or below the space for Committee's Minute.)



© 2020

Lloyd's Register Foundation