

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of HULL Received at London Office.....19 APR 1943

No. in Survey held at Reg. Book..... Date, First Survey 18. 2. 43..... Last Survey 1. 4. 43..... (Number of Visits.....3.....)

66539 on the Steam Ship EMPIRE HARRY Tons {Gross.....482 Net.....402

Built at Goole By whom built Goole Shipbuilding & Repairing Co. No. 387 When built 1943

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

Electrical Installation fitted by Humber Electrical Engineering Co Ltd Contract No..... When fitted 1943

Is vessel fitted for carrying Petroleum in bulk..... Is vessel equipped with D.F. ho E.S.D. ho Gy.C. ho Sub.Sig. ho

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

Heating no Power no Direct or Alternating Current, Lighting DC 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

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....., 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 near generator

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 "Lindamys", if of synthetic insulating material is it an Approved Type Yes, if of semi-insulating material (state 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, single throw, knife switches, and double pole fuses.

and for each outgoing circuit Double pole, single throw, 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 one ammeters one 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 Lamps connected to earth via switches & 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 2V, 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.....

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 THE SHIP ELECTRICAL ENGINEERS OF
W.E. Stulescott

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... *70 ft*

Minimum distance between electric generators or motors and steering compass..... *65 ft*

The nearest cables to the compasses are as follows:—

A cable carrying *4* Ampères *inside* feet from standard compass *5* feet from steering compass.

A cable carrying *4* Ampères *5* 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 degrees on course in the case of the

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

FOR THE SHIPBUILDING & REPAIRING CO. LTD.

W. E. Stulescott

Builder's Signature.

Date

Is this installation a duplicate of a previous case..... *Yes* If so, state name of vessel *EMPIRE OAK.*

Plans. Are approved plans forwarded herewith..... If not, state date of approval..... *15.3.41*

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 electrical*

equipment of this vessel was 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 and apparatus was measured and found good. This equipment is in my opinion suitable for a classed vessel.

Noted
W. E. Stulescott
21/4/43

Total Capacity of Generators..... *12* Kilowatts.

The amount of Fee..... *12 0 0* : : *When applied for, 25% for Spec*
18.15 - 7 0 0 : : *RECAP 1943*
Travelling Expenses (if any) £ : : *When received.*
.....19.....

W. E. Cornell

Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... *FRI. 30 APR 1943*

Assigned..... *See F12 machy opt*

5
Form 4.3B—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveys are requested not to write on or below the space for Committee's Minute.)



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