

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

19 JAN 1943

Date of writing Report.....19..... When handed in at Local Office.....1942..... Port of HULL

No. in Survey held at Selby & Hull Date, First Survey 14. 9. 42 Last Survey 24. 12. 1942
Reg. Book. (Number of Visits.....5.....)

on the Single screw tug EMPIRE ACE Tons { Gross 27.5
Net.....

Built at Selby & Hull By whom built Cochran & Son Ltd Yard No. 1255 When built 1942

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

Electrical Installation fitted by Wm Broadway & Son Ltd Contract No. When fitted 1942

Is vessel fitted for carrying Petroleum in bulk no Is vessel equipped with D.F. no E.S.D. no Gy.O. no Sub.Sig. no

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

Heating..... Power 110 Direct or Alternating Current, Lighting AC Power 28 If Alternating Current state frequency..... Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off..... 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..... 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 generators

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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 Asbestos....., 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 push

break, knife switches, & double pole fuses

and for each outgoing circuit Double pole push break knife switches, & double pole

fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 1

ammeters 1 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 switch & fuses

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.

WM BROADY & SON LTD.
ENGLISH STREET,
HULL.

Electrical Engineers.

Date 23. 12. 42.

COMPASSES.

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

75 ft.

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

70 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 0.5 Ampères inside feet from standard compass 5 ft. feet from steering compass.

A cable carrying 0.5 Ampères 5 ft. 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.....

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 every course in the case of the steering compass.

FOR COCHRANE & SONS, LTD.

Builder's Signature.

Date 29/12/42.

V. Bray

DIRECTOR

Is this installation a duplicate of a previous case.....

Yes

If so, state name of vessel

EMPIRE SAM

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

Notice

LH

22/1/43.

Total Capacity of Generators..... 6 Kilowatts.

The amount of Fee

£

3 : 0 0
+ 25% Spec 15 0

When applied for,
16/1/1943

Travelling Expenses (if any) £

:

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When received,
.....19.....

H. G. Cornell

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE 26 JAN 1943

Assigned.....

See H.L. 51866



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Lloyd's Register
Foundation