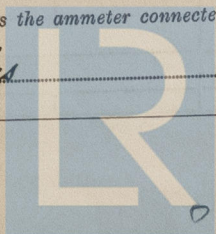


REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

5 JAN 1942

Received at London Office.....

Date of writing Report 18th Decemr 1941 When handed in at Local Office 21.1.42 Port of GrimbyNo. in Survey held at Gainsborough Date, First Survey 21.10.41 Last Survey 14th Decemr 1941
Reg. Book. (Number of Visits.....)on the "EMPIRE RIVER" Tons { Gross 319.74
Net 149.78Built at Gainsborough By whom built J. & W. Watson (Gainsborough) Ltd Yard No. 1521 When built 1941Owners Ministry of War Transport Port belonging to LondonElectrical Installation fitted by The Sunderland Forge & Eng. Co. Ltd Contract No. B839 When fitted 1941Is 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 Parallel, constant pressure, 2 wire Voltage of supply for Lighting 110Heating ✓ Power Direct or Alternating Current, Lighting Direct Power ✓ 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 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 generators as per rule yes Position of Generators Starboard side engine roomis 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 Engine Room, Adjacent to Generatorsare 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 Sindango, 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 switchesDouble pole knife switchand for each outgoing circuit 2 double pole change over switches & fusesAre compartments containing switchboards composed of fire-resisting material or lined as per Rule ✓ Instruments on main switchboard 4ammeters 2 voltmeters 2 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 & switches

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Lloyd's Register

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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.

J. Barber, Branch Manager
Hessrs The Sunderland Forge & Eng Co Ltd

Electrical Engineers.

Date *Dec 21st 1941*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *about 30'-0"*

Minimum distance between electric generators or motors and steering compass *✓*

The nearest cables to the compasses are as follows:—

A cable carrying *.36* Ampères *✓* feet from standard compass *about 7* feet from steering compass.

A cable carrying *✓* Ampères *✓* feet from standard compass *✓* 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.

Builder's Signature.

Date

Is this installation a duplicate of a previous case *Yes*

If so, state name of vessel

"EMPIRE FORD"

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electrical installation of this vessel has been fitted under special survey in accordance with the Rules and approved plans, and has been subjected to the tests prescribed by the Rules with satisfactory results.

The materials and workmanship are good.

The equipment is eligible in my opinion for a vessel classed with this Society.

It is stated that the compass will be adjusted at Hull with & without the electrical installation at work.

The Surveyors have been advised

Noted

✓
6/1/42

Total Capacity of Generators *8* Kilowatts.

The amount of Fee *£ 10 : 0 : 0* When applied for, *29.12.1941*

Travelling Expenses (if any) *£ : 19 : 6* When received, *19.....*

✓
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 13 JAN 1942

Assigned

See Je mach, rpt.



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Foundation