

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

12 JUN 1944

Received at London Office 14 JUN 1944

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

No. in Survey held at Knottingley & Goole Date, First Survey 11. 2. 44 Last Survey 3. 6. 19. 44
Reg. Book. (Number of Visits.....6.....)

37447 on the "EMPIRE ALDERNEY" Tons { Gross...300.....
Net...103.77.....

Built at Knottingley By whom built John Harker Ltd. Yard No. 166 When built 1944

Owners Ministry of War Transport. Port belonging to Goole.

Electrical Installation fitted by John Lord & Son. Contract No. When fitted 1944

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

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

Heating 110 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...Yes, 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 port & 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 port side.

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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..."Syndanyo", 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...Overload circuit

breakers with reverse current trips for main circuits.

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and for each outgoing circuit...Double pole quick break knife switches and Z.E.D. type cartridge fuses.

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Are compartments containing switchboards composed of fire-resisting material or lined as per Rule...Yes Instruments on main switchboard 3

ammeters...3 voltmeters...- synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection...Yes Earth Testing, state means provided...Lamps coupled to earth via 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...20%, are the reversed current

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

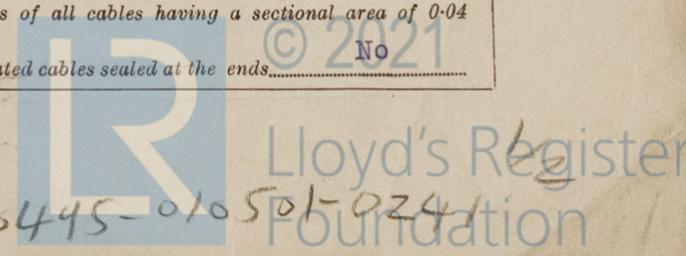
did they operate...-20V Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule...Yes

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...3V, 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...No

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010495-010501-0241

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 J. Lardner & Co., Ltd.

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass 26'0"

Minimum distance between electric generators or motors and steering compass -

The nearest cables to the compasses are as follows:-

A cable carrying 1 Ampères inside feet from standard compass - 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 Yes

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 - degrees on JOHN HARKER LIMITED course in the case of the steering compass.

E. H. Shuckette

Builder's Signature.

Date 24/6/44

SHIPYARD MANAGER

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 30.8.43.

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 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
F.P.
17/7/44

Total Capacity of Generators 11.6 Kilowatts.

The amount of Fee ... £ : : When applied for, 12 JUN 1944
Classification 12 - - : :
Travelling Expenses (if any) £ : : When received.
25% for Spec. 3 - - : : 19

R. G. Cornell
Surveyor to Lloyd's Register of Shipping.

TUES. 18 JUL 1944

Committee's Minute

Assigned

see minute on Ho. Rpt.



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