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23 OCT 1963

Rpt. 13

No. FE.180

REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 19. 9. 19. 63. When handed in at Local Office 19 Port of GLASGOW

No. in Survey held at Greenock Date, First Survey 24.7.63 Last Survey 16.9.1963
Reg. Book (No. of Visits 3)

on the m.v. "RAYLIGHT" Tons Gross 177 Net 73

Built at Greenock By whom built Scotts' S.B. & E. Co. Ltd. Yard No. 695 When built 1963
Owners Ross & Marshall, Greenock Port belonging to Greenock

Installation fitted by Scotts' S.B. & E. Co. Ltd. When fitted 1963

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

Plans, have they been submitted and approved Yes System of Distribution Two wire insulated Voltage of Lighting 110
Heating 110 Power 110 D.C. or A.C. Lighting D.C. Power D.C. If A.C. state frequency -

Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted
with a trip switch - Generators, are they compound wound One - Compound and level compounded under working conditions Yes
One - Shunt

Are the generators arranged to run in parallel No Is the compound winding connected to the negative or positive pole Negative

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing - Have certificates of test for machines
under 100 kw. been supplied and the results found as per Rule Yes Position of Generators E/R Port Aft and Forward

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and
damage from water, steam and oil Yes Switchboards, where are main switchboards placed E/R Port Aft

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,
steam and oil Yes, what insulation is used for the panels Sindanyo, 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 construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear
for each generator and arrangement of equaliser switches 63 Amp D.P. Moulded Case C.B.'s with O/L Release

and the switch and fuse gear (or circuit breakers) for each outgoing circuit D.P. Changeover Switches and Rewirable 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 are the ammeters and reverse current
protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided

Earthed Lamps Preference Tripping, state if provided No, and tested -

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes
make of fuses M.E.M. "Kantark" are all fuses labelled Yes If circuit breakers are provided for the generators, at what
overload do they operate Rewirable 150% F.L.C., and at what current do the reverse current protective
devices operate - Cables, are they insulated and protected as per Rule 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 Less than 6% volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends -

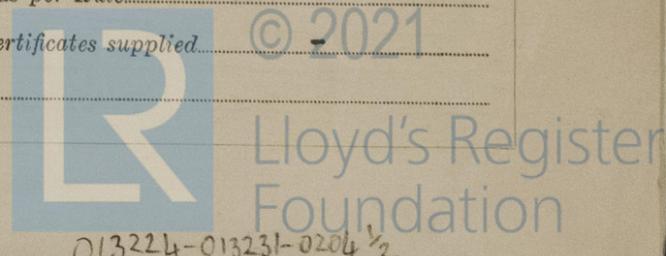
Are all the cable runs in accessible positions not exposed to drip or accumulation of water or oil, high temperatures or risk of mechanical
damage Yes, are any cables laid under machines or floorplates Yes, if so, are they adequately protected Yes State
type of cables (if in conduit this should also be stated) in machinery spaces Butyl L.C. or P.C.P., galleys Butyl P.C.P. & B

and laundries - State how the cables are supported or protected Clipped to solid or perforated
steel tray, run in pipes or conduit or clipped direct to ship's structure

Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes Are all cables passing through decks and watertight
bulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes
effectively bushed Yes Refrigerated chambers, are the cables and fittings as per Rule -

Have refrigeration fan motors been constructed under survey - and test certificates supplied -

Are the motors accessible for maintenance at all times -



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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. [Signature]

Electrical Contractors. Date 10/10/63.

COMPASSES

Have the compasses been adjusted under working conditions

SCOTT'S SHIPBUILDING & ENGINEERING CO., LTD.

J. [Signature]

Builder's Signature. Date 10/10/63

Shipbuilding Manager

Have the foregoing descriptions and schedules been verified and found correct. Yes

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. 23.5.63.

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith. Yes

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

The electrical installation has been fitted on board this vessel under Special Survey, tested under working conditions and found to be satisfactory.

The materials used are of good quality and the workmanship is good.

The installation is, in my opinion, suitable for a classed vessel.

M.R. Hatton

Total Capacity of Generators 10 Kilowatts.

The amount of Fee ... £ 15: - :+ When applied for,

19

Travelling Expenses (if any) £ 3: - :+ When received,

19

Surveyor to Lloyd's Register of Shipping

(M. R. HATTON)

Committee's Minute

GLASGOW 22 OCT 1963

SEE ACCOMPANYING MACHINERY REPORT Assigned

Date entry made in REB.

Surveyor's Initials.

5m.3.58-Transfer. (MADE AND PRINTED IN ENGLAND) (The Surveyors are requested not to write on or below the space for Committee Minute.)

24.10.63



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