

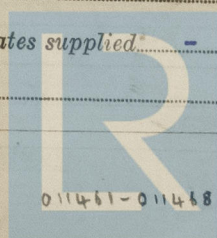
Rpt. 13.

No. 35113

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 18. 3.52 19 When handed in at Local Office APR - 2 1952 Received at London Office 11 APR 1952
 Port of Sunderland
 No. in Survey held at Sunderland Date, First Survey 28.11.51 Last Survey 20.3.52 19
 Reg. Book. 40546 on the m.v. "SANDALWOOD". (No. of Visits 15)
 Built at Sunderland By whom built J.L.Thompson & Sons Ltd. Yard No. 672 Tons { Gross. 10061
 Owners John I. Jacobs Ltd. Port belonging to London Net. 5915
 When built 1952
 Installation fitted by Sunderland Forge & Engineering Co. Ltd When fitted 1952
 Is vessel equipped for carrying Petroleum in bulk Yes Is vessel equipped with D.F. yes E.S.D. yes Gy.C. yes Sub.Sig. no Radar yes
 Plans, have they been submitted and approved yes System of Distribution 2-wire ins. Voltage of Lighting 110
 Heating - 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 yes, and level compounded under working conditions yes
 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 on raised deck, engine
 room starboard.
 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 on angle-iron framework,
 adjacent to generators
 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. ebony "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. a double-pole air-break circuit-breaker fitted with
 O/L tripping device on each pole, for Steam Generators : For Diesel, A Double-pole Knife
 switch and fuses.
 and the switch and fuse gear (or circuit breakers) for each outgoing circuit. a double-pole quick-break knife switch
 and fuses.
 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 are the ammeters and reverse current
 protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided E lamps
 Preference Tripping, state if provided - and tested -
 Switches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an Approved Type yes
 make of fuses "ZED", are all fuses labelled yes If circuit breakers are provided for the generators, at what
 overload do they operate 20%, 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. yes
 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. no, if so, are they adequately protected. - State
 type of cables (if in conduit this should also be stated) in machinery spaces. L.C. on metal tray, galleys. L.C.A.B.
 and laundries - State how the cables are supported or protected. Main feeders and sub-mains
 along fore and aft gangways, V.C.L.C.A.B. cables clipped to solid steel trough.
 Accommodation, L.C. cables clipped to the surface of wooden grounds and protected where
 necessary by wood or metal guards.
 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 yes
 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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Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory.....yes

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.

P. PRO THE SUNDERLAND FORCE & ENGINEERING Co., Ltd.

Electrical Contractors.

Date 12/3/52

COMPASSES.

Have the compasses been adjusted under working conditions. yes

FOR AND ON BEHALF OF

JOSEPH L. THOMPSON & SONS, LIMITED.

Builder's Signature.

Date 31-3-52

Chairman

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. yes If not, state date of approval.

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 pump room lighting arrangements are in accordance with the Secretary's letter of 8.II.51. The electrical equipment of this vessel has been installed under special survey in accordance with the approved plans and the 'as-fitted' diagram attached. The installation complies with the Electrical rules with special regard to Section 15 thereof. The materials and workmanship are good. On Completion, satisfactory trials of the equipment were witnessed and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a classed vessel.

(2 x 45, 1 x 25) 115
Total Capacity of Generators Kilowatts.

The amount of Fee ... £59. 5. 0. :

When applied for,
APR - 7 1952
19

Travelling Expenses (if any) £ :

When received,
19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 6 MAY 1952

Assigned

Su F.E. mchey rpt



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