

Rpt. 13.

No. 23728

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

10 NOV 1954

Date of writing Report 25:10: 19 54 When handed in at Local Office 1: 11: 19 54 Port of ABERDEEN

No. in Survey held at Aberdeen Date, First Survey 17: 6: 54 Last Survey 14: 10: 19 54
Reg. Book. (No. of Visits 10)

90267.S. on the Motor Vessel "FOUNTAINS ABBEY"

Tons { Gross 1197.
Net 410.

Built at Aberdeen By whom built Hall, Russell and Co. Ltd Yard No. 839 When built 1954

Owners Associated Rubber Lines Port belonging to Hull

Installation fitted by Messrs Hall, Russell and Co. Ltd When fitted 1954

Is vessel equipped for carrying Petroleum in bulk no Is vessel equipped with D.F. yes E.S.D. Yes Gy.C. no

Plans, have they been submitted and approved. yes System of Distribution Two wire Voltage of Lighting 220v

Heating 220 v Power 220v 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

if not compound wound state distance between generators --- and from switchboard --- Are the generators 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

Position of Generators Two 100Kw generators at forward end of Engine Room, port and starboard. 35 Kw Gen. at

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 flat athwartships

at forward end of engine room

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. One 500 amp T.P. air break circuit breaker with N/V, O/L and

R/C trips for 100Kw machines, One 200 amp D.P. air-break circuit breaker with N/V, O/L and R.C. trips

for 35 Kw machine. D.P.D.T knife switch and fuses to 15 Kw motor generator and shore supply

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. D.P.D.T or D.P.ST knife switches and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. yes Instruments on main switchboard. 4

ammeters. 4 voltmeters. --- synchronising devices. For compound machines in parallel are the ammeters and reversed current

protection devices connected on the pole opposite to the equaliser connection. yes Earth Testing, state means provided.

Lamps, with switch and fuse in each pole

Switches, Circuit Breakers and Fuses, are they as per Rule. yes, are the fuses an Approved Type. yes

make of fuses. Artic, are all fuses labelled. yes If circuit breakers are provided for the generators, at what

overload do they operate 150% N.P.L., and at what current do the reversed current protective devices operate. 150% N.P.L.

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule. yes

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. 6v, are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets. yes 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. yes, if so, are they

adequately protected. yes Are cables in machinery spaces, galleys, laundries, etc., lead covered. yes or run in conduit. ---

or of the "HR" type. --- State how the cables are supported or protected. By brass clips on perforated steel

cable trays in machinery spaces. By galvanised steel clips on solid steel cable trays. By brass clips on wood

grounds under ceiling and panels in accommodation

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, with lead Refrigerated chambers, are the cables and fittings as per Rule. yes

Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. yes Emergency Supply, state position

none

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PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES (to Section Boards, Distribution Fuse Boards, etc.)

LIGHTING, HEATING, WIRELESS, NAVIGATION LIGHTS, ETC., CABLES

MOTOR CABLES.

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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.

For HALL RUSSELL & Co., Ltd.

Electrical Contractors.

Date

25 Oct 54.

H. W. Day
Director & General Manager.

COMPASSES.

Have the compasses been adjusted under working conditions.

yes

For HALL RUSSELL & Co., Ltd.

Builder's Signature.

Date

25 Oct 54.

H. W. Day
Director & General Manager.

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

yes

Is this installation a duplicate of a previous case.

yes

If so, state name of vessel

M.V. Whitby Abbey

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, whether insulation tests, etc., have been made, opinions as to class, etc.)

The electrical installation of this vessel has been fitted on board under Special Survey, and in accordance with the Rules and the Approved Plans.

The materials and workmanship are good

The installation examined under working conditions, found satisfactory and in our opinion is suitable for use in a classed vessel.

Credit Glasgow £30-18-0 (40%)

Credit Sunderland 15-9-0 (20%) for construction

Credit Aberdeen £30-18-0

Total Capacity of Generators 235 Kw Kilowatts.

The amount of Fee ... £ 77 : 5 :

When applied for,

1: 11: 19 54.

When received,

19

Travelling Expenses (if any) £ :

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

9 NOV 1954

Assigned

SEE ACCOMPANYING MACHINERY REPORT



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