

Rpt. 13.

No. 23645.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

14 APR 1954

Received at London Office

Date of writing Report 31: 3: 19 54 When handed in at Local Office 6th Apr. 19 54 Port of Aberdeen

No. in Survey held at ABERDEEN Date, First Survey 12.11.52. Last Survey 31: 3: 19 54
Reg. Book. (No. of Visits 26)25869 on the Steam Twin Screw Tug "SAMSON" Tons { Gross 855
Net 184

Built at ABERDEEN By whom built A. Hall and Co. Ltd. Yard No. 741 When built 1954

Owners The Admiralty Port belonging to

Installation fitted by Claude Hamilton 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 Sub.Sig. No Radar Yes

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

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. none Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule. yes Position of Generators Both at aft end of Engine

Room, 35 Kw Diesel on port side, 50 Kw Steam Driven at Stbd. side.

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 at aft 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 D.P. Circuit Breaker fitted with overload and Reverse Current

rips.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit

D.P. Knife Switches with fuses

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

ammeters. Two 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 Lamps.

Switch and fuse in each pole Preference Tripping, state if provided. n one, and tested Yes, English

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

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

overload do they operate. 150% full load current, and at what current do the reverse current protective

devices operate. 10% full load current 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. 8 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 Admiralty Pattern, galleys

and laundries. --- State how the cables are supported or protected Mains and Machinery Spaces:

L.C. Cables clipped to perforated trays- Protected where necessary. Accommodation:- L.C. Cables

clipped to woodwork.

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. ---

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

Are the motors accessible for maintenance at all times. ---

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory.....yes

53912

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.

CLAUD HAMILTON (ABERDEEN) LTD

ELECTRICAL ENGINEERS

2329 UNION STREET, ABERDEEN

Electrical Contractors.

Date 6/4/54

COMPASSES.

Have the compasses been adjusted under working conditions

Yes

FOR ALEXANDER HALL & CO. LTD.

W. S. Smith

Builder's Signature.

Date

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 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 tried under working conditions and found satisfactory. In our opinion the installation

is suitable for use on a classed vessel.

Noted JS

27/4/54

Total Capacity of Generators 85 Kilowatts.

The amount of Fee £ 54 : 15

Specification 60 0

When applied for,

31:3: 1954.

When received,

19

Travelling Expenses (if any) £

For Self & Sm. Gardner

John Douglas

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

13 APR 1954

Assigned



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2m 350.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

JS
12/4/54