

Rpt. 13.

No. 58680

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 19... When handed in at Local Office 2 SEP 1952 Received at London Office 26 SEP 1952  
 Port of HULL.

No. in Survey held at Hull. Date, First Survey 13. 6. 52 Last Survey 25. 8. 19 52  
 Reg. Book. (No. of Visits 11)

95049 on the S.Sc. Stm. Tlr. "ST. CELESTIN" Tons { Gross 770 Net 387

Built at Beverley. By whom built Cook, Welton & Gemmell, Yard No. 864 When built 1952

Owners T. Hamling & Co. Ltd. Port belonging to Hull.

Installation fitted by Wm. Broady & Son, Ltd. When fitted 1952

Is vessel equipped for carrying Petroleum in bulk. - 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 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. - 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. No, 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 Engine room starboard 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 Engine room starboard,

side near 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. "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 Double pole double throw, quick break knife switches

and double pole fuses.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole double throw quick break knife switches and double pole 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 reversed current

protection devices connected on the pole opposite to the equaliser connection. - 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

Wm. Sanders & Dorman make of fuses. Smith, Ltd., are all fuses labelled. Yes If circuit breakers are provided for the generators, at what

overload do they operate. - and at what current do the reversed current protective devices operate. -

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. 4 V, 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. - 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. - 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 In Machinery spaces, holds & exposed

positions L.C.A. & B. clipped to steel tray plates or direct to steelwork, in accommodation

etc., L.C. clipped to wood battens or direct 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 Refrigerated chambers, are the cables and fittings as per Rule.

004918 - 004926 - 0055



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

| DESCRIPTION<br>OF<br>GENERATOR.      | No. of | MAKER.                               | RATED AT                    |        |          |                   | PRIME MOVER. |                              |
|--------------------------------------|--------|--------------------------------------|-----------------------------|--------|----------|-------------------|--------------|------------------------------|
|                                      |        |                                      | Kilowatts<br>per Generator. | Volts. | Ampères. | Revs.<br>per Min. | TYPE.        | MAKER.                       |
| MAIN ...                             | 1      | Grompton<br>Parkinson<br>F151A1307 ✓ | 15                          | 110    | 136.5    | 550               | Steam        | Robey 52570 ✓                |
|                                      | 1      | -do- F151A1308 ✓                     | 15                          | 110    | 136.5    | 550               | "            | " 52569 ✓                    |
| EMERGENCY ...<br>ROTARY<br>GENERATOR | 1      | -do- F101A5553                       | 10                          | 110    | 91       | 1200              | Diesel       | Russell Newbery<br>20BL659 ✓ |

| DESCRIPTION.                      | KILOWATTS. | CONDUCTORS.               |   | MAXIMUM CURRENT IN AMPERES. |       | APPROX. LENGTH (lead plus return feet). | INSULATION. | PROTECTIVE COVERING. |
|-----------------------------------|------------|---------------------------|---|-----------------------------|-------|---|-------------|----------------------|
|                                   |            | No. in Parallel per Pole. | Sectional Area or No. and Dia. of Strands.<br>Sq. ins. or sq. mm. | In the Circuit.             | Rule. |   |             |                      |
| MAIN GENERATOR ... ..             | 15         | 1                         | 37/.072   | 136.5                       | 152   | 20                                      | V. I. R.    | L. C.                |
| " " EQUALISER ... ..              | 15         | 1                         | 37/.072   | 136.5                       | 152   | 40                                      | "           | " "                  |
|                                   | 10         | 1                         | 19/.083   | 91                          | 118   | 80                                      | "           | " "                  |
|                                   |            |                           |   |                             |       |   |             |                      |
|                                   |            |                           |   |                             |       |   |             |                      |
|                                   |            |                           |   |                             |       |   |             |                      |
| EMERGENCY GENERATOR ... ..        |            |                           |   |                             |       |   |             |                      |
| ROTARY TRANSFORMER : MOTOE ... .. |            |                           |   |                             |       |   |             |                      |
| " " GENERATOR...                  |            |                           |   |                             |       |   |             |                      |

[illegible][illegible]



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.

WILLIAM BROADY & SON LTD.  
ENGLISH STREET,  
HULL

Electrical Contractors.

Date 15. 8. 52.

#### COMPASSES.

Have the compasses been adjusted under working conditions

COOK, WELTON & GEMMELL, LTD.

Ad Campbell  
Director

Builder's Signature.

Date 19- 8- 52

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. "ST. LEDGER"

Plans. Are approved plans forwarded herewith. Yes If not, state date of approval. 18.3.52.

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 Equipment of this Vessel was installed in accordance with the approved plans and the Rules.

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.

Total Capacity of Generators 40 Kilowatts.

The amount of Fee ... £ 371 : 10 : 0 When applied for, 23 SEP 19

Travelling Expenses (if any) £ : : When received, 19

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 17 OCT 1952

Assigned See F.E. Moly. rpt.



© 2020

Lloyd's Register  
Foundation