

-2 NOV. 1961

Rpt. 13.

No. 25047

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 10.10. 19 61. When handed in at Local Office 24.10. 61 Port of LEITH
No. in Survey held at Leith Date, First Survey 23.3.61. Last Survey 6.10.19 61.
Reg. Book. (No. of Visits 12.)

41556. on the Motorship "TORO" Tons { Gross 512
Net 255

Built at Leith By whom built Henry Robb Ltd. Yard No. 481. When built 1961.

Owners Union Lighterage Co. Ltd. Port belonging to London

Installation fitted by Henry Robb Ltd. When fitted 1961.

Is vessel equipped for carrying Heavy Oil with FP. above 150° F. in bulk/ Yes 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 DC 2 Wire insulated. Voltage of Lighting 110

Heating 110 Power 110 D.C. or A.C., Lighting DC Power DC 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. Yes 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. In Engine Room on floor

level (2 - Port side and 1 - 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. In Engine Room on floor level, starboard side.

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. PIERRITE "B" 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. T.P.H.O. Air-break Circuit Breaker. 3rd pole as equaliser switch to make first and break last.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit. D.P.H.O. Knife switches and fuses - open type.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. Yes Instruments on main switchboard 6

ammeters 4 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. Yes Earth Testing, state means provided. 2 lamps

in series-mid point earthed. 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. "ARTIC" moulded, are all fuses labelled. Yes If circuit breakers are provided for the generators, at what

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

devices operate. Approx. 15% 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. 4.26 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. VCLC & VRILC, galleys. VCLC & VRILC

and laundries. - State how the cables are supported or protected. supported on perforated cable

trays and protected with sheet metal where liable to damage.

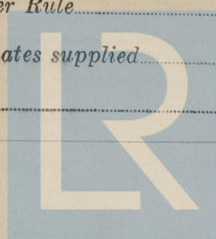
Are all lead sheaths, armouring and conduits effectually bonded and earthed. Yes Are all cables passing through decks and watertight

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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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.

Henry C. Bell

Electrical Contractors.

Date 20. 10. 61

COMPASSES.

Have the compasses been adjusted under working conditions. Yes

Henry C. Bell

Builder's Signature.

Date 26. 10. 61

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.)

This installation has been efficiently fitted on board in accordance with the Rules and approved plans. The materials and workmanship are good.

On completion the installation was found satisfactory under full working conditions.

Total Capacity of Generators 80 Kilowatts.

The amount of Fee ... £ 54 : - : - When applied for,
Leith A/C. £ 27 : - : - 23/10/1961
Glas. A/C. £ 27 : - : -

Travelling Expenses (if any) £ - : 15 : - When received, 19

Thomas Denacovich

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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