

No. 23229

Rpt. 13.

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

20 MAY 1953

Date of writing Report 6-4-53 When handed in at Local Office 1953 Port of Leith

No. in Survey held at Leith Date, First Survey 8-11-52 Last Survey 22-4-53

Reg. Book. (No. of Visits 6) Tons Gross 154.18 Net ✓

on the Twin Screw motor tug "M.S.C. Rover" Built at Leith By whom built Henry Robb. Ltd. Yard No. 416 When built 1953

Owners Manchester Ship Canal Co. Ltd. Port belonging to Manchester

Installation fitted by Henry Robb. Ltd. When fitted 1953

Is vessel equipped for carrying Petroleum in bulk no 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 Two wire 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 ✓ 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 Forward end of Engine Room

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 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 generator and arrangement of equaliser switches Double pole switches, 7 fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double Pole switches & fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule ✓ Instruments on main switchboard One ammeters One 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 Two lamps

in series with common post-locked 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 Artie, 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 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 2 volts. 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 ✓ State type of cables (if in conduit this should also be stated) in machinery spaces in conduit - for lightning, galleys lead covered and laundries ✓ State how the cables are supported or protected Lead covered cables are clipped to perforated tray plate. Cables for engine room lighting in conduit

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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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 ROBB LIMITED

A. Wilson DIRECTOR

Electrical Contractors.

Date *8/5/53*

COMPASSES.

Have the compasses been adjusted under working conditions

none fitted.

HENRY ROBB LIMITED

A. Wilson DIRECTOR

Builder's Signature.

Date *8/5/53*

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

*Motor Tug M.S.C. "Ranger"
"Quarry" & "Quest."*

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 installed on board in accordance with the Rule Requirements and the approved plans.

The materials and workmanship have been found good.

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

2m.8.50.—Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators *26* Kilowatts.

The amount of Fee *IR A/C. £13-0-0 ✓
GR A/C. £13-0-0 ✓*

When applied for, *8/5/1953*

When received, _____

Travelling Expenses (if any) £ _____

Thomas Donaldson
Surveyor to Lloyd's Register of Shipping.

Committee's Minute *GLASGOW 19 MAY 1953*

Assigned *SEE ACCOMPANYING MACHINERY REPORT*

*X. Don 22/5/53
11/5/53*



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