

Rpt. 13.

No. 23229

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 - 1953 When handed in at Local Office 19 Port of Leith
No. in Survey held at Leith Date, First Survey 8 - 11 - 52 Last Survey 22 - 4 - 1953
Reg. Book. (No. of Visits 6) Gross 154.18 Net ✓
✓ on the Swire Screw Motor tug "M.S.C. Rover" Tons
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, 1 fuses

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double Pole switches, 3 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 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 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 power, 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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Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule.....YES..... Emergency Supply, state position

Navigation Lamps, are they separately wired Yes controlled by separate double pole switches and fuses Yes Are the switches and fuses in a position accessible only to the officers on watch Yes, is an automatic indicator fitted Yes Is an alternative supply provided Yes

Secondary Batteries, are they constructed, fitted and adequately ventilated as per Rule..... yes....., state battery capacity in ampère hours 45..... Where required to do so does it comply with 1948 International Convention..... ✓

Lighting, is fluorescent lighting fitted no. If so, state nominal lamp voltage ✓ and compartments where lamps are fitted ✓

Fittings, are all fittings on weather decks, ~~in stowholds~~ and engine room, and wherever exposed to drip or condensed moisture, weatherproof. Yes.

Searchlights, No. of....., whether fixed or portable....., are they of the carbon arc or of the filament type.....

Heating and Cooking, is the general construction as per Rule.....✓....., are the frames effectually earthed.....✓....., are heaters in the accommodation of the convection type.....✓..... Motors, are all motors constructed and installed as per Rule and placed in well-ventilated

compartments in which inflammable gases cannot accumulate and protected from damage from water, ~~steam~~ and oil. LKO.

Are motors coupled to oil fuel transfer and pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment yes Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing ✓

Have certificates of test for motors under 100 BHP intended for essential sea services been supplied and the results found as per Rule. Yes.....

Lightning Conductors, where required are they fitted as per Rule..... Yes

Ships carrying Oil having a Flash Point of less than 150° F. Have all the special requirements of the Rules for such ships been complied with ☒, are all fuses of an Approved Cartridge Type ☒, make of fuse ☒. Are the fittings for pump

rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. ✓ Are all cables lead covered as per Rule. ✓

E.S.D., if fitted state maker ✓ location of transmitter and receiver. ✓

Spare Gear, if the vessel is for open sea service have spares been provided as per Rule and suitably stored in dry situations.....✓

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

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. o'.	MAKER.	RATED AT				PRIME MOVER.	
			Kw. per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	One	Campbell & Istenwood Lx.	26	110	236	1000	3 cpl Diesel 310 3/10.	Crossing Bros. Ld.
EMERGENCY ...								
ROTARY								
TRANSFORMER								

GENERATOR CABLES.

[illegible]

MAIN DISTRIBUTION CABLES (to Auxiliary Switchboards, etc.).

[illegible]

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

[illegible]

MOTOR CABLES.

[illegible]

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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.

Total Capacity of Generators *26.* Kilowatts.

The amount of Fee

*L.R. A/C. £13-0-0 ✓
G.L. A/C. £13-0-0 ✓*

When applied for,

8/5/1953.

When received,

19

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