

11 FEB 1953

Rpt. 13.

No. 23163

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report 30 - 1 - 1953. When handed in at Local Office 19 Port of Leith

No. in Survey held at Leith Date, First Survey 30 - 9 - 51 Last Survey 20 - 1 - 1953
Reg. Book.

(No. of Visits 5)

on the Twin Screw Motor Ship "RANGER" Tons { Gross 154.18
Net

Built at Leith By whom built Messrs Henry Robb Ltd. Yard No. 415 When built 1953.

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

Installation fitted by Messrs 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? Yes 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? Yes 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? Yes Have certificates of test for machines

under 100 kw. been supplied and the results found as per Rule? Yes Position of Generators At 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? At 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? Yes 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 switches & 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? Yes Instruments on main switchboard 1

ammeters 1 voltmeters 1 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 w/ each common point earthed. Preference Tripping, state if provided? Yes, and tested? Yes

Switches, Circuit Breakers and Fuses, are they as per Rule? Yes, are the fuses an Approved Type? Yes

make of fuses? ARTIC, are all fuses labelled? Yes If circuit breakers are provided for the generators, at what

overload do they operate? Yes, and at what current do the reverse current protective

devices operate? Yes Cables, are they insulated and protected as per Rule? Yes

if otherwise than as per Rule are they of an Approved Type? Yes, 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? 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? Yes State

type of cables (if in conduit this should also be stated) in machinery spaces in conduit for lighting, 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.

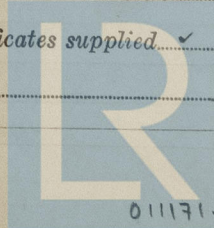
Are all lead sheaths, armouring and conduits effectually bonded and earthed? Yes Are all cables passing through decks and watertight

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? Yes

Have refrigeration fan motors been constructed under survey? Yes and test certificates supplied? Yes

Are the motors accessible for maintenance at all times? Yes



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011171-01185-01061

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

			RATED AT				PRIME MOVER.	
DESCRIPTION OF GENERATOR.	No. o'	MAKER.	Kw. per Generator.	Volta.	Ampères.	Revs. per Min.	TYPE.	MAKER.
Main		Campbell & Woodward Ltd.	26	110	236	1000	3 cyl Diesel Eng. B.W.S./O	Grosvenor Bros Ltd.
Emergency ...								
Rotary Transformer								

[illegible][illegible][illegible][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

25/1/53

COMPASSES.

Have the compasses been adjusted under working conditions

none fitted.

HENRY ROBB LIMITED

A. Wilson

DIRECTOR

Builder's Signature.

Date

25/1/53

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. "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.

(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

*Lt. A/c. £ 13 : ✓
Glo. A/c. 13 ✓*

When applied for,

3/4/1953

When received,

19

Travelling Expenses (if any) £

Thomas Donaldson
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

10 FEB 1953

Assigned

SEE ACCOMPANYING MACHINERY REPORT



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