

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office JUL 1946

Date of writing Report 14th June 46 When handed in at Local Office 22.7.46 Port of Glasgow

No. in Survey held at Glasgow Date, First Survey 9.4.46 Last Survey 28th June 1946
Reg. Book. 38822 on the "MOUNT PARK" (Number of Visits 15)

Tons Gross 6722 Net 3875

Built at Glasgow By whom built G. Connells & Co Ltd. Yard No. 450 When built 1946

Owners Denholm Line Steamers Ltd. Port belonging to Greenock

Electrical Installation fitted by H. T. Robertson & Co Contract No. 450 When fitted 1946

Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Sub.Sig. No

Have plans been submitted and approved Yes System of Distribution two wire Voltage of supply for Lighting 110

Heating — Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state periodicity — Prime Movers,

has the governing been tested and found as per Rule when full load is suddenly thrown on and off Yes Are turbine emergency governors fitted with a

trip switch as per Rule — Generators, are they compound wound Yes are they level compounded under working conditions Yes

If not compound wound state distance between generators — and from switchboard — Where more than one generator is fitted are they

arranged to run in parallel Yes 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 Are the lubricating arrangements and the construction

of the generators as per rule Yes Position of Generators in engine room

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material Yes, if situated

near unprotected combustible material state distance from same horizontally — and vertically — are the generators protected from mechanical

injury and damage from water, steam and oil Yes are the bedplates and frames earthed Yes and the prime movers and generators in metallic

contact Yes Switchboards, where are main switchboards placed near generators

are they in accessible positions, free from inflammable gases and acid fumes Yes are they protected from mechanical injury and damage from water, steam

and oil Yes, if situated near unprotected combustible material state distance from same horizontally — and vertically — what insulation

material is used for the panels Sindango, 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 frame effectually earthed Yes

Is the construction as per Rule Yes, including accessibility of parts Yes, absence of fuses on the back of the board Yes, individual fuses

to pilot and earth lamps, voltmeters, etc. Yes locking of screws and nuts Yes, labelling of apparatus and fuses Yes, fuses on the "dead"

side of switches Yes Description of Main Switchgear for each generator and arrangement of equaliser switches Triple pole circuit

breaker fitted with O/L and R/C trips

and for each outgoing circuit Double pole switch and fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule — Instruments on main switchboard 2

ammeters 2 voltmeters — synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection Yes Earth Testing, state means provided earth lamps.

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an approved type Yes, are all fuses labelled as

per Rule Yes If circuit breakers are provided for the generators, at what overload current did they open when tested Full Load are the reversed current

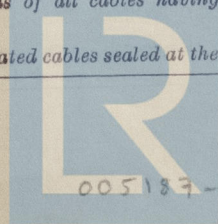
protection devices connected on the pole opposite to the equaliser connection Yes, have they been tested under working conditions, and at what current

did they operate 50 amps. Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule Yes

Cables, are they insulated and protected as per the appropriate Tables of the Rules Yes, if otherwise than as per Rule are they of an approved type N.E.

state maximum fall of pressure between bus bars and any point under maximum load 4.2 volts, are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends Yes



Are all lead sheaths, armouring and conduits effectively bonded and earthed Yes Refrigerated chambers, are the cables and fittings as per Rule —

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 and with what material lead Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule Yes Emergency Supply, state position —

and method of control —

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes. Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present No, if so, how are they protected —

are their fittings as per Rule..... Heating and Cooking, is the general construction as per Rule.....

steam and oil.....Yes....., if situated near unprotected combustible material state minimum distance from same horizontally.....—..... and vertically.....—..... Are

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing..... Have certificates of test for motors under

less than 150° F. Have all the special requirements of the Rules for such ships been complied with....., are all fuses of the cartridge type.....

are they of an approved type..... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such

ships..... Are the cables lead covered as per Rule..... Spare Gear, if the vessel is for open sea service have spares been provided as per

Rule.....Yes....., are they suitably stored in dry situations.....Yes..... Insulation Tests, has the insulation resistance of all circuits and apparatus been tested

and found satisfactory.....Yes.....

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	2 ✓	50 ✓	110	455	550	steam engine		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	50	1	61.093	455	464	30	V.C.	L.C.
" " EQUALISER	—	1	37.083	—	296	15	"	"
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible]

WIRELESS	1	7.044	10	31	✓	336	Rubber	L.C.
NAVIGATION LIGHTS	1	7.029	3	15	✓	105	"	"
LIGHTING AND HEATING								
SALOON & BRIDGE	1	19.058	58.2	64	✓	304	"	"
ENGINEERS ACCOMMODATION	1	19.052	51.3	64	✓	100	"	"
FORWARD CARGO	1	7.044	15.8	31	✓	448	"	"
AFT. CARGO	1	7.036	13.6	24	✓	224	"	"
ENGINE ROOM LIGHTING	1	7.036	21.1	24	✓	40	"	"
POOP LIGHTING	1	19.052	51.6	64	✓	336	"	"
REFRIGERATOR	1	7.064	36.0	46	✓	284	"	"
GYRO	1	7.036	10.0	24	✓	336	"	"
LATHE	1	7.044	26.0	31	✓	96	"	"
DRILL	1	7.036	10.0	24	✓	96	"	"

[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.



Electrical Engineers.

Date 18-6-46.

COMPASSES.

Minimum distance between electric generators or motors and standard compass 20 feet

Minimum distance between electric generators or motors and steering compass 15 feet

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 3 Ampères 12 feet from standard compass 7 feet from steering compass.

A cable carrying Ampères feet from standard compass feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power Yes

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted Yes

The maximum deviation due to electric currents was found to be nil degrees on any course in the case of the standard compass, and nil degrees on any course in the case of the steering compass.

For CHARLES CORNELL & CO., Limited
Charles Cornell, DIRECTOR

Builder's Signature.

Date 24. 6. 46

Is this installation a duplicate of a previous case. No. If so, state name of vessel

Plans. Are approved plans forwarded herewith. If not, state date of approval 5-4-46

Certificates. Are certificates of test for motors engaged on essential 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 has been fitted on board under special survey, tested under full working conditions, and found satisfactory.
The materials and workmanship are good.

Notes Thus 1.8.46

Total Capacity of Generators 100 Kilowatts.

The amount of Fee ...

£32.10.0
~~27.10.0~~

When applied for,

23 JUL 1946

Travelling Expenses (if any) £

When received.

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J. C. Wright

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned