

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

JUL 25 1940

Received at London Office.....

Date of writing Report 13th July 1940 When handed in at Local Office 23rd July 1940 Port of GLASGOW.
 No. in Survey held at PORT GLASGOW & GLASGOW. Date, First Survey (1940) Mar 18 Last Survey 10th July 1940
 Reg. Book. 72950 on the S.S. "DALESMAN" Tons { Gross 6343.44
 Net.....
 Built at PORT GLASGOW. By whom built LITHGOWS. LTD. Yard No. 927 When built 1940.
 Owners CHARENTE S.S. CO LTD (THE HARRISON MAR) Port belonging to LIVERPOOL.
 Electrical Installation fitted by CAMPBELL & ISHERWOOD LTD. Contract No. 927 When fitted 1940.
 Is vessel fitted for carrying Petroleum in bulk no. Is vessel equipped with D.F. — E.S.D. — Gy.C. — Sub.Sig. —

Have plans been submitted and approved Yes System of Distribution Single wire hull return Voltage of supply for Lighting 110.

Heating — Power 110. Direct or Alternating Current, Lighting AC Power AC If Alternating Current state frequency — Prime Movers,

has the governing been tested and found efficient when the whole 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 no., are shunt field regulators provided Yes Is the compound winding connected to the negative or positive pole

positive 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 Main generator 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 Insidan fo., 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 S.P. Switch

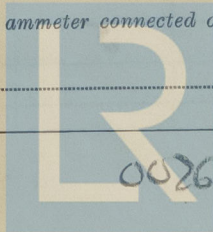
and S.P. Fuse.

and for each outgoing circuit S.P. Switch and S.P. Fuse.

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 — Earth Testing, state means provided —



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Lloyd's Register
Foundation

002653-002658-0049 1/2

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 ... Aux'y.	1	15	110.	136	460	Steam. engine		
	1	7½	110	68	700	Steam engine		
EMERGENCY ...	1	5	110	45.5	1500	oil engine	oil	above 150°F.
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Fols.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rate.			
MAIN GENERATOR	15	1	37/072	136	152 ✓	10	VIR.	L.C.B.
" " EQUALISER								
Aux ^{ty} .	7 1/2	1	19/064	68	83 ✓	10	VIR.	L.C.B.
	1 1/2							
EMERGENCY GENERATOR	5	1	19/064	45-6	83 ✓	6	VIR.	L.C.B.
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

MAIN. S.B. to. AUXILIARY. SW. Bd.	1	19.064	75.9	83	45	V.I.R.	L.C.A.B
CARGO. S.B.	1	7.064	40	46	45	V.I.R.	L.C.A.B.
ACCOMMODATION. S.B.	1	7.052	36	37	120	V.I.R.	L.C.B. in CONDUIT
ENGINE ROOM. S.B.	1	7.044	28.4	31	5	V.I.R.	L.C.A.B.

WIRELESS	1	7/036	18.5	24	140	V.R.	L.C.B. IN CONDUIT
NAVIGATION LIGHTS DB.	1	3/086	5.8	12.0	156	"	L.C.B. " "
LIGHTING AND HEATING							
POOP. DB.	1	7/029	12	18.2	196	"	L.C.B. IN CONDUIT.
ENGINE ROOM DB.	1	7/086	22.3	24	5	"	L.C.B.
AFT. CARGO DB	1	7/036	20	24	116	"	L.C.B. IN CONDUIT
FORW CARGO DB.	1	7/036	20	24	220	"	L.C.B. " "
MIDSHIP DB.	1	7/036	17.5	24	5	"	L.C.B. " "
SALOON DB	1	7/029	13.1	18.2	120	"	L.C.B. " "
SEARCHLIGHT. (WIRING ONLY)	1	7/064	40	46	288	"	L.C.B. " "

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
FORK ASH HOIST.	1	2	1	7/086	18	24	65	VR.	L.C.B.
AFT. ASH HOIST	1	2	1	7/036	18	24	40	VR.	L.C.B.
DOMESTIC REFRIGERATOR.	1	2	1	7/086	18	24	35	VR.	L.C.B.

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.

CAMPBELL & BROWN LTD.

Beutner

Electrical Engineers.

Date

20/7/40.

COMPASSES.

Minimum distance between electric generators or motors and standard compass

25 ft.

Minimum distance between electric generators or motors and steering compass

20 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 36 Ampères led into ~~feet from~~ standard compass led into ~~feet from~~ steering compass.

A cable carrying 5.8 Ampères 10 feet from standard compass 10 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 *h.*

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

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.

LITHGOWS LIMITED

John Macfarlane

Secretary

Builder's Signature.

Date

22/7/40

Is this installation a duplicate of a previous case If so, state name of vessel

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.

Noted.

26/7/40.

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators

27½

Kilowatts.

The amount of Fee ... £ 21 : 5 :

When applied for,

23 JUL 1940

Travelling Expenses (if any) £

9/6 :

When received,

25 JUL 1940

27/7

H. G. Findlay

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Glasgow

23 JUL 1940

Assigned



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