

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

DEC 12 1940

Date of writing Report 2 December 40 When handed in at Local Office 7:12:40 Port of Glasgow  
 No. in Survey held at Greenock & Port Glasgow Date, First Survey 19th Sept 40 Last Survey 20th November 1940  
 Reg. Book. 87521 on the S.S. COULBEG Tons { Gross.....  
 Net.....  
 Built at Port Glasgow By whom built Lithgows Ltd. Yard No. 938 When built 1940  
 Owners Jornock Shipping Co Ltd Port belonging to LONDON  
 Electrical Installation fitted by Sunderland Forge & Eng. Co Ltd Contract No. 938 When fitted 1940  
 Is vessel fitted for carrying Petroleum in bulk - Is vessel equipped with D.F. Yes E.S.D. - Gy.C. - Sub.Sig. -

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 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 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 - are they clear of inflammable material -, 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 Insulation, 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 -

D.P. Switch and fuses

and for each outgoing circuit D.P. Gp. 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 - Earth Testing, state means provided earth lamps



DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN ON INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	1	12.5	110	1135	850	Steam engine		
	1	12	110	109	500.			
EMERGENCY ...								
ROTARY TRANSFORMER								

[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.

P.Pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 4.12.40

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass

40 feet.

Minimum distance between electric generators or motors and steering compass

36 feet.

The nearest cables to the compasses are as follows:—

A cable carrying 0.18 Ampères 65 mts feet from standard compass 65 mts feet from steering compass.

A cable carrying 8.0 Ampères 6 feet from standard compass 6 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

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

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

LITHGOW'S LIMITED.

Secretary Builder's Signature.

Date 6/12/40

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 material and workmanship are good.

Noted  
12/12/40

Total Capacity of Generators 24.5 Kilowatts.

The amount of Fee ... £ 19 : 15 : When applied for

Travelling Expenses (if any) £ 13/4 : When received

S. G. Fridley & R. Storrie  
Surveyors to Lloyd's Register of Shipping

Committee's Minute GLASGOW 10 DEC 1940

Assigned Launce Buttery Repair