

66469

REPORT ON ELECTRICAL  
(OTHER THAN FOR THE PROPULSION OF THE VESSEL)  
*Received at London*

ESSEL)  
Received at London Office.....

Writing Report... 22<sup>nd</sup> Dec. 1942 When handed in at Local Office... 17/12/1942 Port of...  
 ... 13<sup>th</sup> October Last Survey... 30<sup>th</sup> December 1942

7.11.4 GLASGOW & PORT GLASGOW Date, First Survey..... (Number of Visits..... 1.0.....)

on the EMPIRE FERRIS 1942

It at PORT WILSON Port belonging to GREENOCK

Electrical Installation fitted by SUNDERLAND POWER WIRING ONLY GU.C. Sub.Sig.

..... Voltage of supply for Lighting.....

Alternating Current, Lighting D.c. Power D.c. If Alternating Current starts at 1

...governing been tested and found efficient when the whole load is suddenly ...

Where more than one generator is fitted are

26. Are field regulators provided Yes Is the compound winding commutator

*Native* Have machines over 100 kw. been inspected by

st for machines under 100 h.p. 1000

...tion in way of generators satisfactory.....Yes..... are they clear of impurities.....

unprotected combustible material state distance from same horizontally

injury and damage from water, and engine room and generators.

are then in accessible positions, free from inflammable gases and acids, and

and oil..... *Yes*..... if of synthetic insulating material is it an Approved Type..... *Yes*.....

11c) are all conducting parts insulated therefrom as per Rule.....

Is the construction as per Rule.....Yes....., including accessories of 1

to pilot and earth lamps, and.....  
..... and arrangement of equaliser switches.....

D. 11. 10k ohm circuit breaker

..... mps ..... 2 2 1 11 ..... + l ..... H. Lucas .....

and for each day

training switchboards composed of fire-resisting material or lined as per Table 1.

ammeters, 3 voltmeters, 2 synchros, 1 earth lamps.

005 111 000 1 100

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PARTICULARS OF GENERATING PLANT.								
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 ...	3	33	110	300	640	STEAM ENGINE		
EMERGENCY ...								
ROTARY TRANSFORMER								

[illegible]

MOTOR CABLES.									
ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						V.C.	L.C.
REFRIGERATOR CIRCULATING PUMP	1	10	1	19/064	80	135	60	V.I.R.	IN CONDUIT
REFRIGERATOR FAN N°1	1	12.5	1	19/083	100	118	350	V.I.R.	IN CONDUIT
REFRIGERATOR FAN N°2	1	12.5	1	19/083	100	118	350	V.I.R.	IN CONDUIT
REFRIGERATOR FAN N°3	1	8.25	1	19/064	66	83	190	V.I.R.	IN CONDUIT
REFRIGERATOR FAN N°4	1	8.25	1	19/064	66	83	190	V.I.R.	IN CONDUIT
DOMESTIC REFRIGERATOR	1	2.5	1	7/044	21.7	31	350	V.I.R.	IN CONDUIT



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 24/12/42.

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 40 FEET

Minimum distance between electric generators or motors and steering compass 35 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 7.3 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 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.

LITHGOWS LIMITED.

Builder's Signature.

Date 4/1/43.

Is this installation a duplicate of a previous case? Yes If so, state name of vessel EMPIRE GALAHAD

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 working conditions and found satisfactory. All the requirements of the approved plans and M.O.W.T. Specification have been carried out. The materials and workmanship are good.

Noted  
22/1/43

Total Capacity of Generators 99 Kilowatts.

The amount of Fee ...	£ 32 : 8/6	When applied for
SPECIFICATION ...	£ 8 : 2/6	When received.
Travelling Expenses (if any)	£ 1 : 2/6	5/1/43

J. M. Gardiner.  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 19 JAN 1943

Assigned see Grk. LC Report-22115