

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office AUG 1942

Date of writing Report... 20th July 1942 When handed in at Local Office... 1: 8: 42 Port of... GlasgowNo. in Survey held at... Greenock Date, First Survey... 20th May Last Survey... 18th July 1942
Reg. Book. (Number of Visits... 15)

36487 on the... S.S. 'EMPIRE GALAHAD' Tons { Gross... Net...

Built at... Port Glasgow By whom built... Lithgao Ltd. Yard No. 970 When built... 1942

Owners... MINISTRY OF WAR TRANSPORT Port belonging to... GREENOCK.

Electrical Installation fitted by... The Sunderland Forge & Eng. Co. Ltd. Contract No. 970 When fitted... 1942

Is vessel fitted for carrying Petroleum in bulk... Is vessel equipped with D.F. Yes E.S.D. Yes 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... P.C. Power... P.C. 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... Yes 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... In engine-room 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... 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... 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...

Double pole circuit breaker fitted with overload and reverse current trips.

and for each outgoing circuit... Double pole knife pattern switches, and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 7

ammeters... 3 voltmeters... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection... SEE REMARKS. Earth Testing, state means provided... Earth lamps.

[illegible]

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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. 110.

THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 27th July 1942.

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.
J. M. Gardiner Secretary

Builder's Signature.

Date 29/7/42.

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 installation has been fitted on board under special survey, tested under working conditions and found satisfactory, with the exception that the ammeter shunts are to be fitted on the pole opposite to the equalising connection and the reverse current trips to be tested. All the requirements of the approved plans and M.O.W.T. specifications have been carried out. The materials and workmanship are good.

Noted

10/8/42

Total Capacity of Generators 99 Kilowatts.

The amount of Fee ... £ 38 : 8 :
Spec. £ 3 : 2 :
Travelling Expenses (if any) £ 1 : 14/7

When applied for,

When received.

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

Committee's Minute GLASGOW 4 AUG 1942

Assigned SEE ACCOMPANYING MACHINERY REPORT



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