

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

NOV 14 1940

Date of writing Report 26th October 1940 When handed in at Local Office 9:11:40 Port of GLASGOW

No. in Survey held at Glenoch & Port Glasgow Date, First Survey 14:8:40 Last Survey 31st Oct 1940

Reg. Book. 87011 on the S.S. AIRCREST Tons 5237

Built at Port Glasgow By whom built Lithgows Ltd. Yard No. 936 When built 1940

Owners Crest Shipping Co Ltd. Port belonging to LONDON

Electrical Installation fitted by Sunderland Forge & Eng. Co Ltd. Contract No. 936 When fitted 1940

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

Have plans been submitted and approved no. System of Distribution two wire Voltage of supply for Lighting 110

Heating no. Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state frequency no. Prime Movers, no.

has the governing been tested and found efficient when the whole load is suddenly thrown on and off no. Are turbine emergency governors fitted with a trip switch as per Rule no. Generators, are they compound wound no., are they level compounded under working conditions no.

if not compound wound state distance between generators no. and from switchboard no. Where more than one generator is fitted are they arranged to run in parallel no., are shunt field regulators provided no. 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 no. Have certificates of test for machines under 100 kw. been supplied no. and the results found as per rule no. Are the lubricating arrangements and the construction of the generators as per rule no. Position of Generators in engine room.

is the ventilation in way of generators satisfactory no. are they clear of inflammable material no. if situated near unprotected combustible material state distance from same horizontally no. and vertically no., are the generators protected from mechanical injury and damage from water, steam and oil no., are the bedplates and frames earthed no. and the prime movers and generators in metallic contact no. Switchboards, where are main switchboards placed near generators

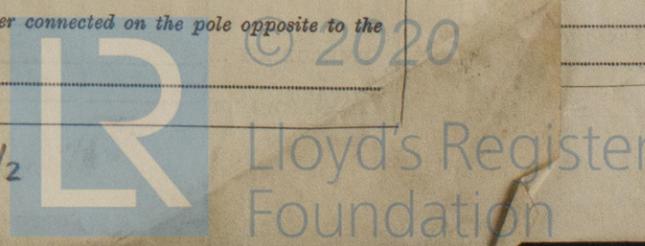
are they in accessible positions, free from inflammable gases and acid fumes no., are they protected from mechanical injury and damage from water, steam and oil no., if situated near unprotected combustible material state distance from same horizontally no. and vertically no., what insulation material is used for the panels Sindano, if of synthetic insulating material is it an Approved Type no. if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule no. Is the frame effectually earthed no.

Is the construction as per Rule no. including accessibility of parts no. absence of fuses on the back of the board no. individual fuses to pilot and earth lamps, voltmeters, etc., no. locking of screws and nuts no. labelling of apparatus and fuses no. fuses on the "dead" side of switches no. Description of Main Switchgear for each generator and arrangement of equaliser switches DP Switch and fuses for each generator

and for each outgoing circuit DP 40 Switch and fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule no. Instruments on main switchboard 2

ammeters 2 voltmeters no. synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the equaliser connection no. Earth Testing, state means provided earth lamps



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 31st October 1940

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 18 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 8 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 *Y.*

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

The maximum deviation due to electric currents was found to be *nil* degrees on *anf* course in the case of the

standard compass, and *nil* degrees on *anf* course in the case of the steering compass.

LITHGOWS LIMITED.

Johnnie ... Secretary

Builder's Signature.

Date 31/10/40

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 installation 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
19/11/40

Rob
9/11/40

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £ 22 : 10 :
 Travelling Expenses (if any) £ : 19 :

S. G. ...
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 12 NOV 1940

Assigned *Su ... F. E Rpt 21128*

2m.10.38.—Transfer. (MADE IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minutes.)