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No. 68627

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report. 1st July 44 When handed in at Local Office. 11.7.44 Port of Glasgow Received at London Office. 13 JUL 1944

No. in Survey held at Glasgow Reg. Book. 37436 on the S.S. EMPIRE "DOMBEY" Date, First Survey. 14th May 1944 Last Survey. 24th June 1944 (Number of Visits. 2)

Built at Glasgow By whom built. A. & J. Inglis & Co. Yard No. 1227 P Tons Gross. Net. When built. 1944

Owners. Ministry of War Transport Port belonging to Glasgow Electrical Installation fitted by W. Muir Goodfellows & Co. Ltd. Contract No. 1227 P When fitted. 1944

Is vessel fitted for carrying Petroleum in bulk. Yes Is vessel equipped with D.F. 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. 110 Power. 110 Direct or Alternating Current, Lighting. D.C. Power. D.C. If Alternating Current state periodicity. Prime Movers,

has the governing been tested and found as per Rule when full 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

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. 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. 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. 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. D.P. Switch and Fuses.

and for each outgoing circuit. D.P. Switch and Fuses.

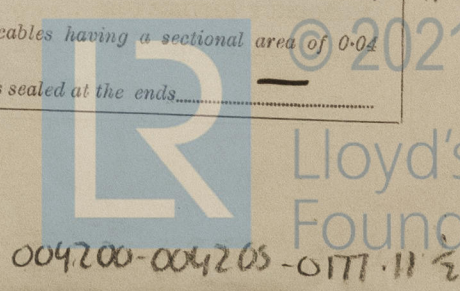
Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. Instruments on main switchboard. 2

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.

Switches, Circuit Breakers and Fuses, are they as per Rule. Yes, are the fuses an approved type. Yes, are all fuses labelled as per Rule. Yes, If circuit breakers are provided for the generators, at what overload current did they open when tested. are the reversed current protection devices connected on the pole opposite to the equaliser connection. have they been tested under working conditions, and at what current did they operate. Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule. Yes.

Cables, are they insulated and protected as per the appropriate Tables of the Rules. Yes, if otherwise than as per Rule are they of an approved type. W.E.

state maximum fall of pressure between bus bars and any point under maximum load. 3 volts, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets. Yes Are paper insulated and varnished cambric insulated cables sealed at the ends.



Lloyd's Register Foundation 0177.11

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GENERATOR CABLES.									
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.	
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.				
MAIN GENERATOR	6 1/2	1	19.052	59.5	64	44	Rubber	L.C.A.	
" " EQUALISER									
EMERGENCY GENERATOR									
ROTARY TRANSFORMER: MOTOR									
" " GENERATOR									

[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.

FOR W. MUIR GOODFELLOW & COY. LTD.

W. M. Goodfellow Electrical Engineers. Date 5/7/44

COMPASSES.

Minimum distance between electric generators or motors and standard compass 100 feet

Minimum distance between electric generators or motors and steering compass 90 feet

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères led into from standard compass led into from steering compass.

A cable carrying 6 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.

FOR A. & J. INGLIS, LIMITED

W. J. Milne Builder's Signature. Date 10-7-44

Is this installation a duplicate of a previous case Yes. If so, state name of vessel S.S. EMPIRE HARVEST

Plans. Are approved plans forwarded herewith —. If not, state date of approval 2-5-44

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith Yes

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 Ministry of War Transport specification have been
carried out. The materials and workmanship are good.

2015
11-7-44

Total Capacity of Generators 13 Kilowatts.

The amount of Fee ... £ 13 : 0 : When applied for,
SPEC. 3 - 5 : 4 - 7 - 19 - 44

Travelling Expenses (if any) £ : : When received.
 19

J. C. Wright
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 11 JUL 1944

Assigned See J.C. report.