

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 16 JUL 1942

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of Liverpool

No. in Survey held at hockwich Date, First Survey 24/2/42 Last Survey 25/6/1942
Reg. Book. (Number of Visits.....5.....)

on the M.V. "EMPIRE LILY" Tons { Gross 327
Net.....

Built at hockwich By whom built Isaac Pumphlett & Sons Ltd Yard No. 642 When built 1942

Owners Ministry of War Transport Port belonging to.....

Electrical Installation fitted by The Sunderland Forge Eng. Co Ltd Contract No. 642 When fitted 1942

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 Yes System of Distribution Two Lines Voltage of supply for Lighting 110

Heating..... Power no Direct or Alternating Current, Lighting DC Power DC 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 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 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 In Engine Room adjacent to generator

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 Sindamyo, 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 & fuses for each generator - C/O switches for alternative arrangement of D.C. supply

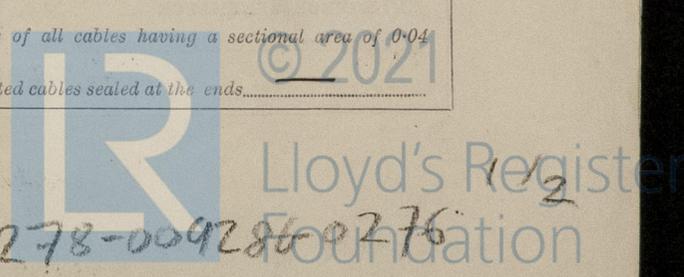
and for each outgoing circuit D.P. switch & fuses

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.....

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..... state maximum fall of pressure between bus bars and any point under maximum load 1 volt 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.....



009278-0092860776

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.

Per Pro THE SUNDERLAND FORGE & ENG. Co. LTD.
J. Williamson Electrical Engineers. Date 3.7.42

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... —

Minimum distance between electric generators or motors and steering compass..... 30 ft.

The nearest cables to the compasses are as follows:—

A cable carrying .18 Ampères — feet from standard compass led into feet from steering compass.

A cable carrying 1.4 Ampères — feet from standard compass 4 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 degrees on course in the case of the

standard compass, and led degrees on any course in the case of the steering compass.

SAAC PIMBLOTT & SONS, LTD., Builder's Signature. Date - 6 JUL 1942

John Pimlott
 Managing Director

Is this installation a duplicate of a previous case Similar to M.V. Empire Gove "Pimblott's Yard No. 636"

Plans. Are approved plans forwarded herewith Yes If not, state date of approval

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 in accordance with the approved plans and specifications. The installation has been tested under full working conditions and found satisfactory. The materials and workmanship are good.

Total Capacity of Generators 8 Kilowatts.

The amount of Fee £ 10 : 0 : 0 When applied for 14 JUL 1942

Travelling Expenses (if any) £ 2 : 14/8 When received.

H. Haffner
 Surveyor to Lloyd's Register of Shipping.

Committee's Minute LIVERPOOL 14 JUL 1942

Assigned See Minute on Liverpool J.G. Machinery Report.

5th. 4. 30. - Transfer. (MADE AND PRINTED IN ENGLAND.)
 (The Surveyors are requested not to write on or below the space for Committee's Minute.)

