

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....21. 8. 1944 Port of NEWCASTLE-ON-TYNE.
 No. in Survey held at HIGH SHIELDS. Date, First Survey (1944) May 31 Last Survey Aug 4th 1944
 Reg. Book. (Number of Visits 15)
 on the S/S "EMPIRE MOULMEIN." Tons { Gross 7047.49
 Net 4741.25
 Built at HIGH SHIELDS. By whom built JOHN READHEAD & SONS LTD. Yard No. 540 When built 1944
 Owners..... Port belonging to.....
 Electrical Installation fitted by CLARK CHAPMAN & CO. LTD. Contract No. 540 When fitted 1944
 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 INSULATED Voltage of supply for Lighting 110
 Heating — 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 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 ENGINE ROOM STD. NO. 1 INBOARD FORD. NO. 2 OUTBOARD FORD.
NO. 3 INBOARD AFT. 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 ENGINE ROOM STD. ON AFT. BULKHEAD

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 INTEROUM., 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 300 AMPERT T. P
CIRCUIT BREAKERS WITH OVERLOAD, NO VOLT. AND REVERSE CURRENT TRIPS.

and for each outgoing circuit DOUBLE POLE Q.B. SWITCH AND DOUBLE POLE FUSE.
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 3
 ammeters 3 voltmeters — synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the
 equaliser connection YES Earth Testing, state means provided EARTH LAMPS CONNECTED TO E THROUGH SWITCHES AND FUSES
 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 40%, are the reversed current
 protection devices connected to the pole opposite to the equaliser connection —, have they been tested under working conditions, and at what current
 did they operate 15% 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 16 V., are the ends of all cables having a sectional area of 0.08
 square inch and above provided with soldering sockets YES Are paper insulated and varnished cambric insulated cables sealed at the ends YES

Rule YES, are they suitably stored in dry situations YES. Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory YES.

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

2/28010

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 CLARKE, CHAPMAN & CO. LTD.

V. Thompson Secretary

Electrical Engineers.

Date

15 AUG 1944

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 38 FEET

Minimum distance between electric generators or motors and steering compass..... 32 FEET

The nearest cables to the compasses are as follows:—

A cable carrying .14 Ampères ~~1/16 IN~~ standard compass feet from steering compass.

A cable carrying .14 Ampères feet from standard compass ~~1/16 IN~~ 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 EVERY course in the case of the standard compass, and NIL degrees on EVERY course in the case of the steering compass.

FOR JOHN READHEAD & SONS LTD.

John Readhead

Builder's Signature.

Date

17.8.44

MANAGING DIRECTOR.

Is this installation a duplicate of a previous case..... If so, state name of vessel.....

Plans. Are approved plans forwarded herewith..... If not, state date of approval..... 1-6-44

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

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 installed in conformity with the Society Rules and Regulations, and the arrangements are in accordance with, or equal to those shown on the Approved Plans.

Materials used are of good quality and the workmanship is satisfactory. On completion, insulation resistance of all circuits was good, and the Generators and Motors operated under working conditions, with satisfactory results.

The Equipment so installed is, in my opinion, suitable for a Pleasure Vessel.

Notes

OK

29.8.44

Total Capacity of Generators..... 90 Kilowatts.

Sunderland
The amount of Fee ... £ 31 : 10 : 39

When applied for,
22 AUG 1944

Travelling Expenses (if any) £ : :

When received,
.....19.....

A. A. Diment
Surveyor to Lloyd's Register of Shipping.

Committee's Minute WED, 6 SEP 1944

Assigned.....

see minute on J.E. Rpl



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Foundation