

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 14th FEBRUARY 1948 When handed in at Local Office 19 FEB 1948 Received at London Office 24 FEB 1948
Port of NEWCASTLE-ON-TYNE

No. in Survey held at WILKINSON-QUAY ON TYNE Date, First Survey 5th FEBRUARY 1948 Last Survey 17th FEBRUARY 1948
Reg. Book. (Number of Visits TWO)

Registered on the S.S. "CANTICK HEAD" Tons (Gross 488, Net 214)
Built at ABERDEEN By whom built J. LEWIS & SONS LTD Yard No. - When built 1921
Owners A.F. HENRY & MACGREGOR LTD Port belonging to LEITH

Electrical Installation fitted by NORTHERN ELECTRIC REWINDS LTD Contract No. - When fitted 1948
Is vessel fitted for carrying Petroleum in bulk No 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 - INSULATED Voltage of supply for Lighting 110
Heating - Power - Direct or Alternating Current, Lighting D.C. Power - 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 -, are shunt field regulators provided - 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 - 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 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 INTEROHM, 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

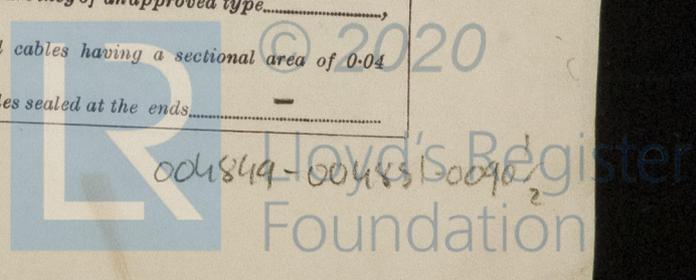
Is the construction as per Rule YES, including accessibility of parts YES, absence of fuses on the back of the board YES, individual fuses to pilot and earth lamps, voltmeters, etc. YES locking of screws and nuts YES, labelling of apparatus and fuses YES, fuses on the "dead" side of switches YES Description of Main Switchgear for each generator and arrangement of equaliser switches DOUBLE POLE SWITCH WITH A FUSE ON EACH INSULATED POLE.

and for each outgoing circuit DOUBLE POLE SWITCH WITH A FUSE ON EACH INSULATED POLE.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard ONE ammeters ONE 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 -, state maximum fall of pressure between bus bars and any point under maximum load < 4 VOLTS, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets - Are paper insulated and varnished cambric insulated cables sealed at the ends -



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.

NORTHERN ELECTRICAL REWINDS LTD.
108 HOWARD STREET,
NORTH SHIELDS.

Robson

Electrical Engineers.

Date 19th February 1948

COMPASSES.

Minimum distance between electric generators or motors and standard compass 90 FEET.

Minimum distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying 0.14 Ampères INDIAN feet from standard compass feet from steering compass.

A cable carrying Ampères feet from standard compass 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 EVERY course in the case of the standard compass, and degrees on course in the case of the steering compass.

Builder's Signature. Date

Is this installation a duplicate of a previous case No. If so, state name of vessel

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

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 ACCORDANCE WITH THE SOCIETY'S RULES AND REGULATIONS AND THE ARRANGEMENTS ARE IN ACCORDANCE WITH THE APPROVED PLANS.

THE STEAM ENGINE DRIVEN GENERATOR IS A RECONDITIONED SET STATED TO BE EX. ADMIRALTY STORES.

THE MATERIALS USED ARE OF GOOD QUALITY AND THE WORKMANSHIP IS SATISFACTORY.

ON COMPLETION THE INSULATION RESISTANCE OF ALL CIRCUITS WAS TO BE ABOVE RULE REQUIREMENTS AND THE GENERATOR OPERATED ON LOAD AND GOVERNOR TESTS WITH SATISFACTORY RESULTS.

THE EQUIPMENT, AS INSTALLED, IS IN MY OPINION SUITABLE FOR A CLASSED VESSEL.

Total Capacity of Generators 3 Kilowatts.

The amount of Fee ... £ 5 : 0 : } When applied for, 20 FEB 1948
Travelling Expenses (if any) £ : : } When received.
LICENCE CASE
R.L.I. form attached to Rpt. 8
Committee's Minute

R.P. Strui
Surveyor to Lloyd's Register of Shipping.

FRI. 12 MAR 1948

Assigned See Rpt 9

5m.4.30.—Transfer. (MADE AND PRINTED IN ENGLAND.) (The Surveyors are requested not to write on or below the space for Committee's Minute.)



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