

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) 22 MAY 1948
Received at London Office

Date of writing Report 20th APRIL 1948 When handed in at Local Office 22 APR 1948 Port of NEWCASTLE-ON-TYNE

No. in Survey held at BATH Date, First Survey 23rd MAR 1948 Last Survey 5th APRIL 1948
Reg. Book. (Number of Visits 100)

35411 on the S.S. "WATSON FERRIS" Tons { Gross 1791
Net 1041

Built at SUPERIOR WIS. By whom built WALTER BUTLER SHIPBUILDERS INC. Yard No. - When built 1943

Owners MINISTRY OF TRANSPORT Port belonging to LONDON.

Electrical Installation fitted by WALTER BUTLER SHIPBUILDERS INC Contract No. - When fitted 1943

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 No System of Distribution TWO WIRE - INSULATED Voltage of supply for Lighting 120

Heating - Power 120 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 - 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 SINDAMPO, 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 & DOUBLE POLE CIRCUIT

BREAKER WITH OVERLOAD, UNDERVOLTAGE AND REVERSE CURRENT TRIPS ALSO TRIPLE POLE KNIFE SWITCH.

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

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES 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 YES Earth Testing, state means provided EARTH LAMPS

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an approved type AMERICAN PATTERNS, 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 350A, are the reversed current

protection devices connected on the pole opposite to the equaliser connection YES, have they been tested under working conditions, and at what current

did they operate YES 30A 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 - 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 YES

to Rpt. 8



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Foundation

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

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.

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass

Minimum distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

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

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Have the compasses been adjusted with and without the electric installation at work at full power

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

The maximum deviation due to electric currents was found to be degrees on 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 If so, state name of vessel

Plans. Are approved plans forwarded herewith 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 installation of this ship to the standards of the American Bureau of Shipping has been in operation for approximately 5 years and was found to be in satisfactory condition, except that no alternative supply was available for the navigation event. An alternative supply has been arranged from the wheelhouse D. Board.

The materials used and the workmanship are satisfactory.

In my opinion the electrical installation of this ship is in a satisfactory condition and eligible to receive the Society Classification of L.M.C. 4. 48.

-noted

29.5.48.

Total Capacity of Generators 50 Kilowatts.

INCLUSIVE FEE SEE LONDON

ENDORSEMENT DATED 28-1-48.

The amount of Fee ... £ : : When applied for,

LICENCE SUPERVISION

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

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI 4 JUN 1940

Assigned

Su F.E. mch. rpt.



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