

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office..... 14 JUL 1948

Date of writing Report... 30.4.1948 When handed in at Local Office... 19... Port of... Liverpool  
 No. in Survey held at... Rydam & Preston Date, First Survey... 18/11/47 Last Survey... 30/4/48  
 Reg. Book. (Number of Visits... 4)  
 37021 on the... S.S. "HAZELFIELD". Tons { Gross... 692  
 Net...

Built at... Rydam By whom built... Rydam S.B. & Eng. Co. Ltd. Yard No. 889 When built... 1948

Owners... Zillah Shipping & Carrying Co. Ltd. Port belonging to... Liverpool

Electrical Installation fitted by... Rydam S.B. & Eng. Co. Ltd. Contract No. 889 When fitted... 1948

Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F. Yes E.S.D. No Gy.C. No Sub.Sig. No

Have plans been submitted and approved... Yes System of Distribution... Two main 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... 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 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...

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

and fuses.

and for each outgoing circuit... Double pole switch gear for each outgoing circuit except Steering Gear, Double

pole circuit breakers - R.P. change-over switch for steering gear circuit.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 4

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...

state maximum fall of pressure between bus bars and any point under maximum load... 4/164, 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...



PARTICULARS OF GENERATING PLANT.

## GENERATOR CABLES.

### MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

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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.

THE LYTHAM SHIPBUILDING AND  
ENGINEERING COMPANY, LIMITED  
R. Friedmanthal

Electrical Engineers.

Date 19.5.48

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass

66 ft

Minimum distance between electric generators or motors and steering compass

70 ft

The nearest cables to the compasses are as follows:—

A cable carrying 4 Ampères 6 feet from standard compass 8 feet from steering compass.

A cable carrying 2 Ampères 6 feet from standard compass 6 ft 6 in feet from steering compass.

A cable carrying 2 Ampères 6 ft 6 in feet from standard compass 4 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 40 degrees on any course in the case of the standard compass, and 40 degrees on any course in the case of the steering compass.

THE LYTHAM SHIPBUILDING AND  
ENGINEERING COMPANY, LIMITED  
R. Friedmanthal

Builder's Signature.

Date 19.5.48

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 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 installed under special survey and in accordance with the approved plans Rules for Electrical Equipment. The installation has been examined and tested under full working conditions and found satisfactory. The electrical workmanship is good.

Noted

Ed. 9.48.

Total Capacity of Generators 15 Kilowatts.

The amount of Fee ...

£ 15 : 0

When applied for  
0-7 JUL 1948

Travelling Expenses (if any) £

1 : 18/11

When received.

19.....

H. Haffner

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

LIVERPOOL 13 JUL 1948

Assigned

See Minute on Liverpool H. Haffner Rpt.

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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