

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

29 MAY 1945

Received at London Office.....

Date of writing Report.....19..... When handed in at Local Office.....7.5.45 Port of.....NEWCASTLE-ON-TYNE.....

No. in Survey held at.....SOUTH SHIELDS..... Date, First Survey.....(1945) Feb 27 Last Survey.....23/4/1948  
Reg. Book..... (Number of Visits.....)on the.....S/S. "SHAHKRISTAN"..... Tons {Gross.....7309  
Net.....5139

Built at.....SOUTH SHIELDS..... By whom built.....JOHN READHEAD &amp; SONS LTD. Yard No.....544 When built.....1945

Owners.....STRICK LINE (1923) LTD. Port belonging to.....LONDON

Electrical Installation fitted by.....CLARKE CHAPMAN &amp; CO. LTD. Contract No.....544 When fitted.....1945

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....., 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. BTBD OF MAIN ENGINE OUT AND INBOARD.

....., 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, FRONT OF ENGINEERS STORE.

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 Q.B.

SWITCHES AND DOUBLE POLE FUSES.

and for each outgoing circuit.....DOUBLE POLE, DOUBLE THROW, Q.B. SWITCHES AND DOUBLE POLE FUSES

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..... 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....., 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.....6V, are the ends of all cables having a sectional area of 0.01

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.

0214272  
Lloyd's Register  
Foundation



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.

J. B. Woodson

Electrical Engineers.

Date

28 APR 1945

Director

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 52 FEET

Minimum distance between electric generators or motors and steering compass 44 FEET

The nearest cables to the compasses are as follows:—

A cable carrying 14 Ampères INSIDE feet from standard compass feet from steering compass.

A cable carrying 14 Ampères feet from standard compass INSIDE 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 NIL degrees on EVERY course in the case of the steering compass.

Builder's Signature.

Date

2.5.45

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 20/3/45

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

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 Rules and Regulations, and the arrangements are in accordance with, or equivalent to those shown on the approved plans.

Materials used are of good quality and the workmanship is satisfactory.

On completion, the insulation resistance of all circuits was good and the generators operated on load and Governor tests with satisfactory results.

The equipment, as installed is, in my opinion, suitable for a classed vessel.

Noted from 2.6.45

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £ 22 : 10 : (Std. 1/6)

When applied for, 28 MAY 1945

Travelling Expenses (if any) £ : :

When received.

19.....

Surveyor to Lloyd's Register of Shipping.

FRI. 22 JUN 1945

Committee's Minute

Assigned

Su F.E. Macky, rpt.