

## REPORT ON ELECTRICAL EQUIPMENT.

27 OCT 1948

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 20.10.48 When handed in at Local Office 26th October 48 Port of SUNDERLAND

No. in Survey held at SUNDERLAND Date, First Survey 28-9-48 Last Survey 19.10.48 19.  
Reg. Book.on the s.s. "OTTO BANCK" Tons { Gross 2325  
Net 1168  
1948

Built at SUNDERLAND By whom built Short Bros. Ltd Yard No. 501 When built

Owners Otto Bancks Rederi A/B Port belonging to Helsingborg

Electrical Installation fitted by Campbell &amp; Isherwood Ltd Contract No. 501 When fitted 1948

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

Have plans been submitted and approved yes System of Distribution two-wire insulated Voltage of supply for Lighting 110

Heating 110 Power 110 Direct or Alternating Current, Lighting yes Power yes 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 yes 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 starboard on raised stools

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 on angle iron frame 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 Ebony "Sindanyo" 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 a triple pole (one

pole for equaliser) air-break circuit-breaker with O/L and R/V current tripping devices.

and for each outgoing circuit a double pole, quick-break knife 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 E lamps coupled to earth through switches &amp; 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 5%, 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 10% 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 less than 6.V. 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 yes



and found satisfactory.....yes.....

## PARTICULARS OF GENERATING PLANT.

[illegible]

### 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.

CAMPBELL & JONERWOOD, LTD.

Electrical Engineers.

Date 21st Oct 1948

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 48'

Minimum distance between electric generators or motors and steering compass 58'

The nearest cables to the compasses are as follows:—

A cable carrying .15 Ampères 10 on the feet from standard compass feet from steering compass.

A cable carrying .15 Ampères on the 10 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 nil degrees on every course in the case of the steering compass.

FOR SHORT BROTHERS, LIMITED.

Builder's Signature.

Date 25/10/48.

SECRETARY.

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

Plans. Are approved plans forwarded herewith No. If not, state date of approval 4.10.48

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 in accordance with the approved plans and the "Rules For Electrical Equipment": The materials and workmanship are good. Upon completion the generators were operated on load and the insulation resistance of all circuits was measured and found good. This equipment is in my opinion suitable for a vessel bearing The Society's class.

Noted 18/11/48

(2x30, 1x15)

Total Capacity of Generators 75 Kilowatts.

The amount of Fee	£	51 : 5 : 0	When applied for,
SUNDAY ATTENDANCE		5 : 5 : 0	007 26 1948
LATE		3 : 3 : 0	
Travelling Expenses (if any)	£	:	When received.
		:	19.....

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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