

28 JUL 1943

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report... 54 JUL 43... When handed in at Local Office... 9 JUL 1943... Port of... Liverpool

No. in Survey held at... houlbich... Date, First Survey... 24-2-43... Last Survey... 2-7-43... 19... (Number of Visits... 5...)

Reg. Book... on the... 'C. 614'... Tons { Gross... 346 Net... 140

Built at... houlbich... By whom built... W. J. Yarwood &amp; Sons Ltd... Yard No... 713... When built... 1943

Owners... Port belonging to...

Electrical Installation fitted by... W. J. Yarwood &amp; Sons Ltd... Contract No... 713... When fitted... 1943

Is vessel fitted for carrying Petroleum in bulk... ho... Is vessel equipped with D.F... ho... E.S.D... ho... Gy.C... ho... Sub.Sig... ho...

Have plans been submitted and approved... Yes... System of Distribution... Yes... 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... 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 adjacent to 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... Shi dango... 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

split and fuses.

and for each outgoing circuit... Double pole split and fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard... 2

ammeters... 1... 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... 1.44 Volts... 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.								
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	ONE	7.5	110	68	550	Steam Engine	-	-
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULA- TED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... ..	7.5	1	19/064	68	83	40	Rubber	L.C.
" " EQUALISER ... ..								
EMERGENCY GENERATOR ... ..								
ROTARY TRANSFORMER: MOTOR ... ..								
" " GENERATOR ... ..								

[illegible][illegible][illegible]



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.

W. J. YARWOOD & SONS (1938) LTD.

*W. J. Yarwood*  
Managing Director

Electrical Engineers.

Date

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass

44 ft

Minimum distance between electric generators or motors and steering compass

40 ft

The nearest cables to the compasses are as follows:—

A cable carrying 20 Ampères 6 ft 6 in feet from standard compass 4 feet from steering compass.

A cable carrying 20 Ampères 6 feet from standard compass 6 ft 6 in feet from steering compass.

A cable carrying 2 Ampères 15 feet from standard compass 10 feet from steering compass.

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

any

standard compass, and

degrees on

any

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

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 fitted on board under special survey, and in accordance with the approved plans. The installation has been tested under full working conditions and found satisfactory. The materials and workmanship are good.

Noted

29/7/43

Total Capacity of Generators

7.5

Kilowatts.

The amount of Fee

£ 7 : 10

When applied for

19

Travelling Expenses (if any)

£

When received.

19

*W. J. Yarwood*

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

LIVERPOOL 27 JUL 1943

Assigned

Transmit to Loran.

FRI. 6 AUG 1943

see minute on J.E. Rpt.

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