

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

**Resigned at London Office.**

Date of writing Report 44 Oct. 1941 When handed in at Local Office 5 Oct. 1941 Port of Sunderland

No. in Survey held at Simardland Date, First Survey 1904 Last Survey 1904  
 Bag Book Walling (Number of Violets.....)

Reg. Book. *Suppt.* *Wallace*

Reg. Book. 66274 on the S.S. "EMPIRE WYCHE" Tons { Gross 6966

Built at Sunderland By whom built Thos Bros. Ltd. Yard No. 467 When built 1941

Owners Ministry of War Transport Port belonging to Sunderland

Electrical Installation fitted by Campbell & Sherwood, Ltd. Contract No. 467 When fitted 1941

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

Have plans been submitted and approved. Yes System of Distribution Two wire ungrounded Voltage of supply for Lighting 110

Heating..... Power 110 Direct 1 Alternating Current, Lighting..... Power 90 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..... Are turbine emergency governors fitted with

trip switch as per Rule \_\_\_\_\_ Generators, are they compound wound Y, are they level compounded under working conditions Y

if not compound wound state distance between generators..... and from switchboard..... Where more than one generator is fitted are the

arranged to run in parallel no, are shunt field regulators provided no. Is the compound winding connected to the negative or positive pole

Positive Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing. Yes 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 4/4 Position of Generators Engine Room starboard side

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 metall

contact *7/10* Switchboards, where are main switchboards placed *Engine room starboard side*

on left backhead

are they in accessible positions, free from inflammable gases and acid fumes 7/10 are they protected from mechanical injury and damage from water, steam

and oil 412 if situated near unprotected combustible material state distance from same horizontally \_\_\_\_\_ and vertically \_\_\_\_\_ what insulating \_\_\_\_\_

material is used for the pencils *"9000 Linum"* if of synthetic insulating material is it an Approved Type *7/10* it

to the former, affectually, entitled

In the present case, the  $4\frac{1}{2}$  inch including possibility of growth,  $4\frac{1}{2}$  inches of space on the back of the head,  $4\frac{1}{2}$  inches individual face

*[Faint handwritten notes at the bottom of the page]*

4. Description of Main Switchgear and arrangement of auxiliary switches. *Sh. 2. 2. 2.*

... El ...

1871

*[Faint handwritten text, likely bleed-through from the reverse side.]*

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2

2. ... ..

.....

.....

Switches, circuit breakers and fuses are used as per rule. ~~are the fuses an approved type.~~ are the fuses marked  
 2.2.2 2.1 2.106 101 761 610.11 612 *Set at 190A.*

per hour. 1. Circuit breakers are provided for the generators, at what overload current and 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?

and they operate, ~~.....~~ Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule ~~.....~~

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.....Yes.....

state maximum fall of pressure between bus bars and any point under maximum load. 2.31, are the ends of all cables having a sectional area of 0



PARTICULARS OF GENERATING PLANT.							
DESCRIPTION OF GENERATOR:	No. of	RATED AT			Revs. per Min.	DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.
		Kilowatts.	Volts.	Ampères.			Fuel Used.
MAIN ... ..	2	15	110	137	600	Single cylinder steam engine	
EMERGENCY ... ..							
ROTARY TRANSFORMER							

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 ...	2	15	110	137	600	Single cylinder steam engine		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Folds.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	2 x 15	1	19/083	137	191	30 x 45	V.C.	L.C.B.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible]

DESCRIPTION	QTY.	UNIT	PRICE	TOTAL	REMARKS
WIRELESS	...	...	...	...	...
NAVIGATION LIGHTS	26				
LIGHTING AND HEATING	...	...	...	...	...
Saloon & First Cabin	25				
Eng'rs. Aft. Cabin & Aft. Stg.	26				
Engine Room	25				

[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.

CAMPBELL & FISHERWOOD, LTD.

Thomas Meade

Electrical Engineers.

Date 6th Oct 1941

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 126 feet

Minimum distance between electric generators or motors and steering compass 122 feet

The nearest cables to the compasses are as follows:—

A cable carrying 14 Ampères on the ~~for~~ standard compass 7 feet from steering compass.

A cable carrying 14 Ampères 7 feet from standard compass on the ~~for~~ 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.

James H. H. H.

Builder's Signature.

Date 26th Oct 1941

SECRETARY.

Is this installation a duplicate of a previous case Yes If so, state name of vessel 'Empire Burton'

Plans. Are approved plans forwarded herewith No If not, state date of approval 14.7.41 + 16.7.41

Certificates. Are certificates of test for ~~motors engaged on essential services and~~ generators forwarded herewith Yes 2 forwarded

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 and with the specifications. The materials used are of good quality and the workmanship is good. On completion the equipment was operated under working conditions with satisfactory results and the insulation resistance of all units was measured and found good. This equipment is in our opinion suitable for service.

Noted JH 14/10/41

Total Capacity of Generators 20 Kilowatts.

The amount of Fee ... £ 28 : 2/6 : When applied for, 2 Oct 1941

Travelling Expenses (if any) £ : : When received, 9 Oct 1941

Surveyor to Lloyd's Register of Shipping.

FRI. 17 OCT 1941

Committee's Minute

Assigned

See Mtd. 76 33218



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