

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL) MAY 1930

Received at London Office.....

Date of writing Report.....

19.....

When handed in at Local Office

13th May

10 30 Port of

Belfast.

No. in Survey held at

Belfast.

Date, First Survey

11th March

Last Survey

23rd April

1930.

Reg. Book.

(Number of Visits.....)

on the

S.S. 'CEFAU'

Tons

Gross

Net

Built at

BELFAST.

By whom built

WORKMAN CLARK (1928) LTD. Yard No. 514.

When built 1930.

Owners

Standard Fruit & Veg. Co. Ltd.

VICARRO BROS.

Port belonging to

Belfast.

Electric Light Installation fitted by

SUNDERLAND FORGE & ENGRG CO. LTD.

Contract No.

When fitted 1930.

System of Distribution

DOUBLE WIRE

Pressure of supply for Lighting

110

volts, Heating

-

volts, Power

110.

volts.

Direct or Alternating Current, Lighting

DIRECT.

Power

DIRECT.

If alternating current system, state frequency of periods per second

-

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off

Yes.

Generators, do they comply with the requirements regarding rating

Yes.

, are they compound wound

Yes.

are they over compounded 5 per cent.

Yes.

, if not compound wound state distance between each generator

-

Where more than one generator is fitted are they arranged to run in parallel

Yes.

, is an adjustable regulating resistance fitted in

series with each shunt field

Yes.

Are all terminals accessible, clearly marked, and furnished with sockets

Yes.

, are they so spaced or shielded that they cannot be accidentally earthed,

short circuited, or touched

Yes.

Are the lubricating arrangements of the generators as per Rule

Yes.

Position of Generators

ENGINE ROOM.

is the ventilation in way of the generators satisfactory

Yes.

, are they clear of all inflammable material

Yes.

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

- and -

, are the generators protected from mechanical injury and damage from water, steam or oil

Yes.

are their axes of rotation fore and aft

Yes.

Earthing, are the bedplates and frames of the generating plant efficiently earthed

Yes.

are the prime movers and

their respective generators in metallic contact

Yes.

Main Switch Boards, where placed

ENGINE ROOM.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

-

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes

Yes.

are they protected from mechanical injury and damage from water, steam or oil

Yes.

, if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards

-

and

-

are they constructed wholly of durable, non-ignitable non-absorbent materials

Yes.

, is all insulation of high dielectric strength and of

permanently high insulation resistance

Yes.

, if semi-insulating material is used, are all conducting parts insulated from the slab

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

Yes.

and is the frame effectively earthed

Yes.

Are the fittings as per Rule regarding:— spacing or shielding of live parts

Yes.

, accessibility of all parts

Yes.

, absence of fuses on back of board

Yes.

, proportion of omnibus

bars

Yes.

, individual fuses to voltmeter, pilot or earth lamp

Yes.

, connections of switches

Yes.

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

T.P. CIRCUIT BREAKERS, 3rd POLE TO ACT AS EQUALIZER FOR EACH GENERATOR. D.P. SWITCHES & D.P. FUSES FOR FEEDER CIRCUITS.

Instruments on main switchboard

3

ammeters

3.

voltmeters

-

synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system

EARTH LAMP CONNECTED TO EARTH THRO' S.P. SWITCH & FUSE ON EACH POLE.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules

Yes.

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule

Yes.



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If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP								
	MAIN BILGE LINE PUMPS ...								
	GENERAL SERVICE PUMP ...								
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP								
	CIRC. SEA WATER PUMPS ...								
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP								
	ENGINE TURNING GEAR ...								
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...								
	OIL FUEL TRANSFER PUMP								
	WINDLASS								
	WINCHES, FORWARD								
	WINCHES, AFT								
	STEERING GEAR—								
	(a) MOTOR GENERATOR...								
	(b) MAIN MOTOR								
	WORKSHOP MOTOR								
	VENTILATING FANS	3	075	19	072	72 ✓	160	RUBBER	BRAIDED.
	COOLER FAN No. 1	1	2-.15	37	072	297 ✓	270	"	"
	" " No. 2	1	2-.1	19	083	231 ✓	320	"	"
	" " No. 3	1	2-.1	19	083	231 ✓	70	"	L.C.B.
	" " No. 4	1	2-.1	19	093	231 ✓	30	"	"

All Conductors are of annealed copper conforming to British Standard Specification No. 7.
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
The foregoing is a correct description.

THE SUNDERLAND FORGE & ENGINEERING CO. LIMITED Electrical Engineers.

Date 8th May 1930.

Thos. Thompson

COMPASSES.

Distance between electric generators or motors and standard compass 118 FEET.

Distance between electric generators or motors and steering compass 112 FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 10.5 Ampères 10 feet from standard compass 5 feet from steering compass.

A cable carrying 18 Ampères 2 feet from standard compass 10 feet from steering compass.

A cable carrying 18 Ampères 6 feet from standard compass 2 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 nil degrees on all courses in the case of the standard compass, and nil degrees on all courses in the case of the steering compass.

PRO WORKMAN CLARK (1928) LIMITED.

F. Cunningham

Builder's Signature.

Date

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

General Remarks (State quality of workmanship, opinions as to class, &c. This installation has been constructed)

under special survey. The materials and workmanship are sound and good. It has been tried under working conditions with satisfactory results. In my opinion the vessel is eligible for notation "Electric Light."

It is submitted that
this vessel is eligible for
THE RECORD.

Elec. Light

27/5/30

Total Capacity of Generators 225 Kilowatts.

The amount of Fee ... £37 : 2 : 6

When applied for,

15 May 1930

Travelling Expenses (if any) £ :

When received,

27.5.30

John K. Williams.

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Lt



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