

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

25 AUG 1926

Date of writing Report

19

When handed in at Local Office

No 8

10 26

Port of

Belfast

No. in Survey held at
Reg. Book.

Belfast

Date, First Survey

16th June

Last Survey

6th Aug

1926

(Number of Visits.....12.....)

on the

New Steel Y M/V "Accra"

Built at

Belfast

By whom built

Harland & Wolff Ltd

Yard No. 616

Tons

Gross

Net

When built

1926

Owners

Elder Dempster & Co Ltd

Port belonging to

Liverpool

Electric Light Installation fitted by

Harland & Wolff Ltd

Contract No. 616

When fitted

1926

System of Distribution

Two wire direct current to Distribution Boxes

Pressure of supply for Lighting

220

volts, Heating

220

volts, Power

220

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 overload

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 and clearly marked

yes

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

or short circuited

yes

Are the lubricating arrangements of the generators as per Rule

yes

Position of Generators

Main Generators in Motor Room forward
Emergency Generator in Emgy Dynamo House upper Deck aft

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 axis 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

on Platform forward end of Motor 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

are they constructed wholly of durable, incombustible 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 connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework

yes

and is the

frame effectively earthed

yes

Are the following fittings as per Rule, viz.:— 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

D.P. Overload + Reverse
current circuit breaker with time limits & interlocked equaliser switch for each generator.
D.P. overload circuit breaker or S.P. switch & D.P. fuses for each outgoing circuit

Instruments on main switchboard

13

ammeters

2

voltmeters

arranged 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 lamps

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

yes

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

yes

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	1	.06	19	.064	80	50	Rubber	Lead covered
	MAIN BILGE LINE PUMPS ...	2	.04	19	.082	48	50	"	" "
	ENGINE FIRE SERVICE PUMP ...	1	.1	19	.083	112	200	"	"
	EMERGENCY BILGE PUMP ...	1	.06	19	.064	72	540	"	Lead Covered A & B
	SANITARY PUMP	2	.06	19	.064	72	180	"	Lead covered
	CIRC. SEA WATER PUMPS ...	4	.06	19	.064	74	140	"	"
	CIRC. FRESH WATER PUMPS	2	.04	19	.052	62	100	"	"
	AIR COMPRESSOR	2	.6	91	.093	480	230	"	"
	FRESH WATER PUMP	1	.007	7	.036	18	80	"	"
	ENGINE TURNING GEAR ...	2	.0225	7	.064	40	165	"	"
	ENGINE REVERSING GEAR ...	—							
	LUBRICATING OIL PUMPS ...	4	.2	37	.083	180	140	"	"
	OIL FUEL TRANSFER PUMPS	2	.0145	7	.052	32	360	"	"
	WINDLASS	1	.2	37	.083	220	375	"	Hard Rubber
	WINCHES, FORWARD } ...	2	.1	19	.083	130	105	"	"
	WINDLASS	2	.06	19	.064	94	105	"	"
	STEERING GEAR	2	.2	37	.083	180	650	"	"
	WORKSHOP MOTOR	2	.003	3	.036	8	160	"	Lead covered
	VENTILATING FANS	19	.003	3	.036	12	300	"	Hard Rubber
		1	.01	7	.044	30	330	"	"
		2	.0225	7	.064	40	200	"	Lead covered
	Winches aft	4	.1	19	.083	81	105	"	Hard Rubber
	" Boat Dk	2	.06	19	.064	81	142	"	"

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.



Electrical Engineers.

Date

18/8/26

COMPASSES.

Distance between electric generators or motors and standard compass 100 ft. to generators 30 ft. nearest motor

Distance between electric generators or motors and steering compass 97 " " " 31 " " " "

The nearest cables to the compasses are as follows:—

A cable carrying 26 Ampères 6 feet from standard compass 6 feet from steering compass.

A cable carrying 27 Ampères 33 feet from standard compass 32 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.

The maximum deviation due to electric currents was found to be Nil degrees on all course in the case of the standard

compass, and Nil degrees on all 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

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation has been fitted in accordance with the rules & under special survey. The materials & workmanship are good and the tests under working conditions and overload were satisfactory.

The vessel is entitled in my opinion to have notation "Electric Light".

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

25/8/26

Total Capacity of Generators 650 Kilowatts

The amount of Fee ... £ See 1st Entry reparation machinery

Travelling Expenses (if any) £

W. Butler per A.P.S. Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec Light



© 2020

Lloyd's Register Foundation