

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

12 OCT 1934

Date of writing Report

19

When handed in at Local Office

11. 10. 34

Port of

Middlesbrough.

No. in Survey held at

Middlesbrough

Date, First Survey

10 Sept

Last Survey

2. 10. 1934.

(Number of Visits.....8.....)

Reg. Book.

on the

557

Olivia

Tons { Gross 425.09
Net 160.43

Built at

South Bank

By whom built

Smiths Dock Co Ltd

Yard No.

972

When built 1934

Owners

Victoria Steam Fishing Co Ltd

Port belonging to

Hull

Electric Light Installation fitted by

R. Pickersgill & Sons Ltd

Contract No.

When fitted 1934

Is the Vessel fitted for carrying Petroleum in bulk

No.

12.

System of Distribution

Double wire

Pressure of supply for Lighting

110

volts, Heating

volts, Power

volts.

Direct or Alternating Current, Lighting

Direct current

Power

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

is an adjustable regulating resistance fitted in

series with each shunt field

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

Yes

31.

short circuited, or touched

Yes

Are the lubricating arrangements of the generators as per Rule

Yes

Position of Generators

Starboard side of 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

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

Main Switch Boards, where placed

After end of 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

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, 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

main switch uses a double pole switches fuses for outgoing circuits

Instruments on main switchboard

One

ammeters

one

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

2 lamps in series across positive & negative to earth

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

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

12 OCT '34

PARTICULARS OF GENERATING PLANT.

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE	
		Kilowatts.	Volts.	Ampères.	Horse power.		Fuel Used.	Flash Point of Fuel.
MAIN	1	8	110	27	400	Dunbarland Large Engine (Steam)	/	/
AUXILIARY								
EMERGENCY								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	No. of Poles.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
MAIN GENERATOR	1			19	.044	35	53.1	23	V.I.R.	Lead Amm. Band
EQUALISER CONNECTIONS										
AUXILIARY GENERATOR										
EMERGENCY GENERATOR										
ROTARY TRANSFORMER										
ENGINE ROOM	2			3	.011	3.5	12	10	V.I.R.	Do
BOILER ROOM										
AUXILIARY SWITCHBOARDS										
ACCOMMODATION	2			7	.036	10	24	15.0	V.I.R.	Do
	2			7	.036	7	24	40		
WIRELESS	2			7	.044	15	31	40		
SEARCHLIGHT										
MASTHEAD LIGHT	2			1	.044	40 Volt	6.1	170		
SIDE LIGHTS	2			1	.044		6.1	60		Lead covered
COMPASS LIGHTS	2			1	.044		6.1	20		
POOP LIGHTS										
CARGO LIGHTS										
ARC LAMPS										
HEATERS										

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. per Pole.	Total Effective Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
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										

Cables: Single, twin, concentric, or multicore ^{single lead} ~~thin armoured~~ are the cables insulated and protected as per Tables IV or V of the Rules.

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load.

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.04 square inch and above provided with soldering sockets.

Paper Insulated Cables. If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound.

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage.

Support and Protection of Cables, state how the cables are supported and protected. ^{Lead & Armoured cable with galvanised clips & lead covered cable with brass clips}

If cables are run in wood casings, are the casings and caps secured by screws, are the cap screws of brass, are the cables run in separate grooves. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VIII.

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements.

Joints in Cables, state if any, and how made, insulated, and protected.

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands.

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed.

Earthing Connections, state what earthing connections are fitted and their respective sectional areas. ^{Dynamo earthes to seating with 19/044 soldered terminals}

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule.

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven.

Navigation Lamps, are these separately wired, controlled by separate switch and separate fuses, are the fuses double pole, are the switches and fuses grouped in a position accessible only to the officers on watch, has each navigation lamp an automatic indicator as per Rule.

Secondary Batteries, are they constructed and fitted as per Rule.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, water, are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected.

are any fittings placed in spaces in which inflammable or explosive dust or gases are liable to be present, if so, how are they protected. ^{Specialty strong gas tight fittings fixed to deck between beams. Under deck.}

where are the controlling switches situated. ^{In Engine room}

Searchlight Lamps, No. of, whether fixed or portable, are their fittings as per Rule.

Arc Lamps, other than searchlight lamps, No. of, are their live parts insulated from the frame or case, are their fittings as per Rule.

Motors, are their working parts readily accessible, are the coils self-contained and readily removable for replacement.

are the brushes, brush holders, terminals and lubricating arrangements as per Rule, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material.

are they protected from mechanical injury and damage from water, steam or oil, are their axes of rotation fore and aft.

if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type, if not of this type, state distance of the combustible material horizontally or vertically above the motors and.

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed and fitted as per Rule.

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule.

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings.

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



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Single lead
then armoured

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.

RICHARD PICKERSGILL & SONS, LTD.

Electrical Engineers.

Date October 14/34

COMPASSES.

Distance between electric generators or motors and ^{Top} standard compass

^{Yes}
about 57'0"

Distance between electric generators or motors and ^{Pole} steering compass

about 52'0"

The nearest cables to the compasses are as follows:—

A cable carrying .5 Amperes 5 feet from standard compass about 10 feet from steering compass.

A cable carrying — Amperes — feet from standard compass — feet from steering compass.

A cable carrying — Amperes — 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} 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} Yes.

The maximum deviation due to electric currents was found to be ^{nil} nil degrees on ^{each} each course in the case of the standard compass, and ^{nil} nil degrees on ^{each} each course in the case of the steering compass.

for the Dock Ctr.

for the

Builder's Signature. Date 10/10/34

Is this installation a duplicate of a previous case ^{Almost} Almost. If so, state name of vessel "BRUNNES"

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

The materials and workmanship are good.

This electric light installation has been fitted aboard under special survey in accordance with the Rules and has been tested under working conditions with satisfactory results and is, in my opinion, suitable for a classed vessel.

only. Specially strong gas light. ^{Noted} Noted to deck. ^{Between lights} Between lights. ^{Under deck} Under deck. ^{9/17/10/34} 9/17/10/34.

In Engine room

Total Capacity of Generators 8 Kilowatts.

The amount of Fee ... £ 8-0-0

When applied for,

2-10-1934

Travelling Expenses (if any) £

When received,

4-12-34

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 26 OCT 1934

Assigned

See Indb JE 15225



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