

Rpt. 13.

No. 41342

**REPORT ON ELECTRIC FITTINGS.**

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

-6 NOV 1930

Date of writing Report

4: 11: 1930

When handed in at Local Office

5 Nov 1930

Port of

HULL

No. in Survey held at

Goole

Date, First Survey

14 Oct

Last Survey

27 Oct 1930

Reg. Book.

90667 on the

Steel

S.S.

"GOWER"

(Number of Visits.....4.....)

Tons

Gross 598.02

Net 878.90

Built at

Goole

By whom built

Goole S.B.

R. 60

Hull No. 291

When built

1930

Owners

Kilvey Shipping Ltd.

Port belonging to

Swansea

Electric Light Installation fitted by

Lumber Electrical Co. Ltd.

Contract No.

When fitted

1930

Is the Vessel fitted for carrying Petroleum in bulk

No

System of Distribution

Two wire

Pressure of supply for Lighting

100 (see over)

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

yes

, is an adjustable regulating resistance fitted in

series with each shunt field

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

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

✓

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

direct

coupled

Main Switch Boards, where placed

Beside

generator

in the 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

✓

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

, connections of switches

yes

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

D.P. Linked

Switch for generator

Outgoing

circuits

controlled by S.P.

Switches

protected by

fuses on each pole

✓

Instruments on main switchboard

one

ammeters

one

volts

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 lamps

with

separate switches

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



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

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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.

FOR THE HUNTER ELECTRICAL ENGINEERING CO.

*W. E. Shuttlesworth*

Electrical Engineers.

Date *Nov 3/30*

#### COMPASSES.

Distance between electric generators or motors and standard compass *80 ft.*

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying *2* Ampères *70* feet from standard compass ——— feet from steering compass.

A cable carrying ——— Ampères ——— feet from standard compass ——— 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 *yes*

The maximum deviation due to electric currents was found to be *no* degrees on *any* course in the case of the standard compass, and *no* degrees on *any* course in the case of the steering compass.

FOR THE GOOLE SHIPBUILDING & REPAIRING CO. (1927) LTD.

*W. E. Shuttlesworth*

Builder's Signature.

Date *4. 11. 30*

Joint Managing Director

Is this installation a duplicate of a previous case ☒ If so, state name of vessel ☒

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

*of this vessel has been fitted on board under Special Survey, tried under full working conditions & found good. It is eligible in my opinion to have record of "Electric Light".*

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

*(2)*  
*15/11/30.*

Total Capacity of Generators *3.5* Kilowatts.

The amount of Fee ... £ *4 : 0 : 0* *5 Nov 30*

Travelling Expenses (if any) £ : : *18/12/30*

*W. H. Waggott*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

*Elec Lt*



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