

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

10 OCT 1945

of writing Report... # - 10 - 19. 45... When handed in at Local Office... 4 - 11 - 19... 45... Port of... Aberdeen

in Survey held at... Buckie... Date, First Survey... 8/6/45... Last Survey... 30/9/1945... Reg. Book... (Number of Visits... 2...)

on the... ST LORD BEACONSFIELD... Tons { Gross 302... Net 158

built at... Dalby... By whom built... Cochran & Sons Ltd... Yard No... ✓... When built... 1915-9

owners... J. Bennett (Wholesale) Ltd... Port belonging to... Amnaby

Electrical Installation fitted by... Edward Hillocks... Contract No... W.P.S. 19/308... When fitted... 21 Sept 1945

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

plans been submitted and approved... No... System of Distribution... Two Wire... Voltage of supply for Lighting... 110

Power... Direct or Alternating Current, Lighting... D.C... Power... If Alternating Current state periodicity... ✓... Prime Movers,

the governing been tested and found as per Rule when full load is suddenly thrown on and off... Yes... Are turbine emergency governors fitted with a

switch as per Rule... ✓... Generators, are they compound wound... Yes... are they level compounded under working conditions...

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

engaged to run in parallel... ✓... are shunt field regulators provided... Yes... Is the compound winding connected to the negative or positive pole

Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing... ✓... Have certificates of

for machines under 100 kw. been supplied... No... and the results found as per rule... ✓... Are the lubricating arrangements and the construction

of the generators as per rule... Yes... Position of Generators... Engine Room Star 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 metallic

contact... Yes... Switchboards, where are main switchboards placed... Near Generator

are they in accessible positions, free from inflammable gases and acid fumes... Yes... are they protected from mechanical injury and damage from water, steam

and oil... Yes... if situated near unprotected combustible material state distance from same horizontally... ✓... and vertically... ✓... what insulation

material is used for the panels... Polished enamelled plate... if of synthetic insulating material is it an Approved Type... ✓... if of

insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Yes... Is the frame effectually earthed... Yes

the construction as per Rule... Yes... including accessibility of parts... Yes... absence of fuses on the back of the board... Yes... individual fuses

on pilot and earth lamps, voltmeters, etc... Yes... locking of screws and nuts... Yes... labelling of apparatus and fuses... Yes... fuses on the "dead"

ends of switches... Yes... Description of Main Switchgear for each generator and arrangement of equaliser switches... double pole

Single throw switch & single pole fuses... ✓

for each outgoing circuit... P.E.S.T switches & S.P. fuses... ✓

are compartments containing switchboards composed of fire-resisting material or lined as per Rule... ✓... Instruments on main switchboard... One

voltmeters... One... voltmeters... ✓... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection... ✓... Earth Testing, state means provided... Earth lamps

Circuit Breakers and Fuses, are they as per Rule... Yes... are the fuses an approved type... Yes... are all fuses labelled as

per Rule... Yes... If circuit breakers are provided for the generators, at what overload current did they open when tested... ✓... are the reversed current

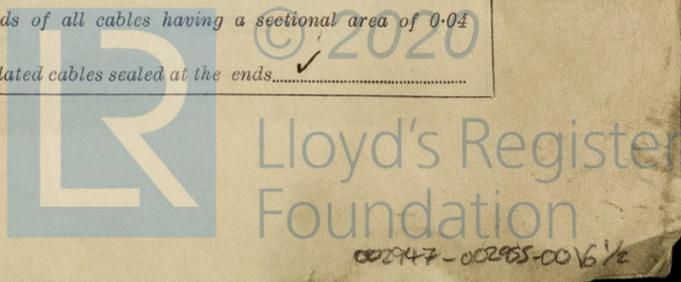
connection devices connected on the pole opposite to the equaliser connection... ✓... have they been tested under working conditions, and at what current

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

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... ✓

maximum fall of pressure between bus bars and any point under maximum load... 2 volts... are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets... Yes... Are paper insulated and varnished cambric insulated cables sealed at the ends... ✓



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.

Law Shlocks

Electrical Engineers.

Date *24 Sept 1945*

COMPASSES.

Minimum distance between electric generators or motors and standard compass..... *50 feet*

Minimum distance between electric generators or motors and steering compass..... *46 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *25 W* Ampères *led into* feet from standard compass *led into* feet from steering compass.

A cable carrying *100 W* Ampères *9* feet from standard compass *9* 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 *nil* degrees on *any* course in the case of the standard compass, and *nil* degrees on *any* 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..... *✓*

Plans. Are approved plans forwarded herewith..... *None* If not, state date of approval..... *✓*

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith..... *None*

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)..... *The wiring of this*

installation has been carried out in accordance with the Rules of this Society.

The materials and workmanship are good. The installation has been

subjected to a full load run of 6 hours and found satisfactory. Temperatures

noted at end of run. Engine room 42° F. Armature 105° F. Commutator 110° F

Note: The installing firm have no facilities for making plans for submission

but the installation follows the usual practice for haulers.

This installation was stated to have been fitted during Admiralty service. All the

wiring has now been renewed together with switchboard, switches fuses, etc.

Marks G.E.C. Generator. N° S/1900/60. Date 1940. KW 4½ V 110 A 88 RPM 550 Rating Continuous

Winding Compound. Driven by Howard Single Cylinder Steam Engine.

*Noted
L. J.
10/11/45.*

Total Capacity of Generators..... *4½* Kilowatts.

The amount of Fee £ *3* : *15* :

When applied for, *8th Oct. 1945.*

Travelling Expenses (if any) £ *✓* :

When received,

J. A. Arney

Surveyor to Lloyd's Register of Shipping.

FRI. 16 NOV 1945

Committee's Minute.....

Assigned..... *See minute on p. 9*

5m. 4.39.—Transfer. (MADE AND PRINTED IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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