

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 29th December 1947 When handed in at Local Office.....19..... Port of CopenhagenNo. in Survey held at Copenhagen Date, First Survey 14th June 1947 Last Survey 20th December 1947
Reg. Book. (Number of Visits.....)21748 on the Single Se. "CLARA" Tons { Gross 1398
Net 798Built at Pris By whom built Larsen & Wærstedt Yard No. 669 When built 1925Owners G. & M. (Larsen & Wærstedt) Port belonging to CopenhagenElectrical Installation fitted by Brunn Børn 4/9 Pris Contract No. When fitted 1925Is vessel fitted for carrying Petroleum in bulk no Is vessel equipped with D.F. no E.S.D. no Gy.C. no Sub.Sig. noHave plans been submitted and approved yes System of Distribution 2 wire - 2 conductor Voltage of supply for Lighting 110Heating ✓ Power ✓ Direct or Alternating Current, Lighting direct Power ✓ If Alternating Current state periodicity ✓ Prime Movers,has 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 atrip switch as per Rule ✓ Generators, are they compound wound shunt, are they level compounded under working conditions ✓,if not compound wound state distance between generators ✓ and from switchboard ✓ Where more than one generator is fitted are theyarranged 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 oftest for machines under 100 kw. been supplied ✓ and the results found as per rule ✓ Are the lubricating arrangements and the constructionof the generators as per rule yes Position of Generators Starboard side of engine room floor level✓ is the ventilation in way of generators satisfactory yes are they clear of inflammable material yes, if situatednear unprotected combustible material state distance from same horizontally no and vertically no, are the generators protected from mechanicalinjury and damage from water, steam and oil yes, are the bedplates and frames earthed yes and the prime movers and generators in metalliccontact yes Switchboards, where are main switchboards placed On the left hand engine room bulkheadsare they in accessible positions, free from inflammable gases and acid fumes yes, are they protected from mechanical injury and damage from water, steamand oil yes, if situated near unprotected combustible material state distance from same horizontally no and vertically no, what insulationmaterial is used for the panels marble, if of synthetic insulating material is it an Approved Type ✓, if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule yes Is the frame effectually earthed yesIs the construction as per Rule yes, including accessibility of parts yes, absence of fuses on the back of the board yes, individual fusesto pilot and earth lamps, voltmeters, etc., yes locking of screws and nuts yes, labelling of apparatus and fuses yes, fuses on the "dead"side of switches yes Description of Main Switchgear for each generator and arrangement of equaliser switches 2 pole switcheswith fuses on each poleand for each outgoing circuit 2 pole switches with fuses on each poleAre compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard 1ammeters 1 voltmeters ✓ synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection ✓ Earth Testing, state means provided 1 set of earth lampsSwitches, Circuit Breakers and Fuses, are they as per Rule yes, are the fuses an approved type ✓, are all fuses labelled asper Rule yes If circuit breakers are provided for the generators, at what overload current did they open when tested no, are the reversed currentprotection devices connected on the pole opposite to the equaliser connection ✓, have they been tested under working conditions, and at what currentdid they operate ✓ Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule yesCables, 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 ✓,state maximum fall of pressure between bus bars and any point under maximum load ✓, are the ends of all cables having a sectional area of 0.04square inch and above provided with soldering sockets yes Are paper insulated and varnished cambric insulated cables sealed at the ends ✓

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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.

✓
.....Electrical Engineers. Date.....

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....✓

Minimum distance between electric generators or motors and steering compass.....

The nearest cables to the compasses are as follows:—

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

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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 degrees on course in the case of the
standard compass, and degrees on 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.....*yes*..... If not, state date of approval.....

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith.....✓

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

*The runnings of the above electric installation have
been checked & found in accordance with the approved plans.
The installation has been surge tested & tested under
working conditions & found efficient.*

*Noted
SW 3/2/48*

Total Capacity of Generators.....*5*.....Kilowatts.

The amount of Fee £	:	:	When applied for,19.....
Travelling Expenses (if any) £	:	:	When received,19.....

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned.....*See minute on form*.....

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

FBI. 23 APR. 1948



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