

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

4 - MAR 1948  
Received at London Office

Date of writing Report... 28/2 1948... When handed in at Local Office... 19... Port of... Stockholm

No. in Survey held at... Västervik... Date, First Survey... 12.12.47... Last Survey... 12.2.48  
Reg-Book. (Number of Visits... 1...)

on the... m.s. "TURÖY" ex "Ironbound" Tons {Gross... 502  
Net... 304

Built at... By whom built... Yard No... MMS No. 44 When built... -

Owners... L. Myrebøe A/S (L. Myrebøe, Mgr.) Port belonging to... Bergen, Norway

Electrical Installation fitted by... Elektriska Ingeniörsfirman G. Söderström Contract No... - When fitted... 2.48

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

Have plans been submitted and approved... Yes System of Distribution... 2-wire Voltage of supply for Lighting... 220

Heating... Power... 220 Direct or Alternating Current, Lighting... D.C. Power... D.C. 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... No xx) Are turbine emergency governors fitted with a trip switch as per Rule... - Generators, are they compound wound... Yes, 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 they arranged to run in parallel... No, 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 test for machines under 100 kw. been supplied... No x) and the results found as per rule... - Are the lubricating arrangements and the construction of the generators as per rule... Yes Position of Generators... One on each side in engine room.

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... in engine room.

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... bakelite, if of synthetic insulating material is it an Approved Type... Yes, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... - Is the frame effectually earthed... Yes

Is the construction as per Rule... Yes, including accessibility of parts... Yes, absence of fuses on the back of the board... Yes, individual fuses to 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... double pole switches with double pole fuses.

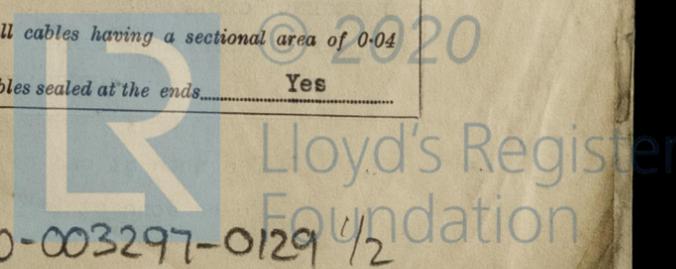
and for each outgoing circuit... double pole switches with double pole fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Yes Instruments on main switchboard... 2 ammeters... 2 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

Switches, 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 but labels not fire-proof If circuit breakers are provided for the generators, at what overload current did they open when tested... - are the reversed current protection devices connected on the pole opposite to the equaliser connection... - have they been tested under working conditions, and at what current did they operate... - Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule... Yes

Cables, are they insulated and protected as per the appropriate Tables of the Rules... - if otherwise than as per Rule are they of an approved type... Yes state maximum fall of pressure between bus bars and any point under maximum load... 2 volt, 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... Yes

See note at end of report. Will be done at Bergen.





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..... 8 m

Minimum distance between electric generators or motors and steering compass..... 6 m

The nearest cables to the compasses are as follows:—

A cable carrying 15 Ampères 4 m feet from standard compass 4 m feet from steering compass.

A cable carrying 5 Ampères 1 m feet from standard compass 1 m feet from steering compass.

A cable carrying 2 Ampères - feet from standard compass 1 m feet from steering compass.

Have the compasses been adjusted with and without the electric installation at work at full power..... No

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..... No. If not, state date of approval..... 8.1.48 and 23.1.48.

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

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

equipment has been fitted onboard under my supervision and tested in accordance with the Rules. The results were found to be partly unsatisfactory and some particulars not available and it is therefore recommended that the survey should be completed as follows:—

Both electric generators to be overhauled and tested under full load and the temperature rises to be noted (shunt resistance of the 12 Kw. generator to be replaced by one of appropriate capacity).

Labels on main switchboard to be replaced by non-ignitable ones.

The spare parts for the electric motors and generators to be completed as per Rules and checked onboard.

The vessel has proceeded to Bergen where it is stated that the above items will be attended to. The

Bergen Surveyor has been advised.

NOTE:—

It has not been possible to ascertain whether the compound winding has been connected to the negative or positive pole.

No certificates for the generators have been supplied.

No information regarding the r.p.m. of the generators is available.

Total Capacity of Generators 12 x 54 = 66 Kilowatts.

The amount of Fee ... .. Kr. 300:— : When applied for, 28 1/2 % .....

Travelling Expenses (if any) Kr. 110:— : When received, .....

*J.M. Lajer*

Surveyor to Lloyd's Register of Shipping.

WED 9 JUN 1948

Committee's Minute A.B. WESTERVIKS VARF

Assigned *Dangren* Elect. Ing. firman C. Stenström

*See minute on fe. hull aft*

5th. 4.33.—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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