

Report on Electrical Equipment.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

21 DEC 1945

Received at London Office.....

Date of writing Report... 5th Dec. 1945. When handed in at Local Office..... 1945. Port of Gothenburg.....

Survey held at Gothenburg..... Date, First Survey... 9th October Last Survey... 15th Nov. 1945.
(Number of Visits... 8.....)No. in
Reg. Book.

25399 on the S.S. "HALVARD BRATT"

Tons { Gross 1053
Net 531

Built at Elbing..... By whom built F. Schichau..... Yard No. 1102..... When built 1921.....

Owners Rederi A-B. Adolf..... Port belonging to Gothenburg.....

Electrical Installation fitted by Bothén & Linderholm, Gothenburg..... Contract No. ---..... When fitted 1932.....

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

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

Heating..... Power..... Direct or Alternating Current, Lighting... D.C.. Power..... If Alternating Current state frequency..... Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off... Yes... 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..... 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... and the results found as per rule..... Are the lubricating arrangements and the construction

of the generators as per rule... Yes... Position of Generators In the 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 the engine room.....

are they in accessible positions, free from inflammable gases and acid fumes..... 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... Marble... if of synthetic insulating material is it an Approved Type..... if of

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

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... No... Description of Main Switchgear for each generator and arrangement of equaliser switches... A double pole circuit

breaker and a fuse on each pole.....

and for each outgoing circuit... A double pole circuit breaker and a fuse on each pole.....

distribution boards..... Yes..... Hard wood Instruments on main switchboard 1.....

Are compartments containing ~~switchboards~~ composed of fire-resisting material or lined as per Rule.....

ammeters 1..... 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 fitted.....

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Are all lead sheaths, armouring and conduits effectually bonded and earthed....**Yes**..... Refrigerated chambers, are the cables and fittings as per Rule

Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands....**Yes**..... where unarmoured cables pass through beams, etc., are the holes effectively bushed ...**Yes**..... and with what material**Lead**..... **Alternative Lighting**, are the groups of lights in the engine and boiler rooms arranged as per Rule**Yes**..... **Emergency Supply**, state position

..... and method of control

..... **Navigation Lamps**, are they separately wired**Yes**.... controlled by separate double pole switches...**Yes**.... and fuses**Yes**.... Are the switches and fuses in a position accessible only to the officers on watch**Yes**...., is an automatic indicator fitted...**Yes**.... **Secondary Batteries** are they constructed and fitted as per Rule**Yes**...., are they adequately ventilated**Yes**....

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof...**Yes**..... Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present.....**No**....., if so, how are they protected

..... and where are the controlling switches fitted, are all fittings suitably ventilated ...**Yes**.....

are all fittings and accessories constructed and installed as per Rule....**Yes**.... **Searchlight Lamps**, No. of....., whether fixed or portable....., are their fittings as per Rule **Heating and Cooking**, is the general construction as per Rule

are the frames effectually earthed, are heaters in the accommodation of the convection type **Motors**, are all motors constructed and installed as per Rule and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil if situated near unprotected combustible material state minimum distance from same horizontally and vertically

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results found as per Rule..... **Control Gear and Resistances**, are they constructed and fitted as per Rule **Lightning Conductors**, where required are they fitted as per Rule **Ships carrying Oil having a Flash Point less than 150° F.** Have all the special requirements of the Rules for such ships been complied with, are all fuses of the cartridge type

are they of an approved type..... If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof type **Spare Gear**, if the vessel is for open sea service have spares been provided as per Rule**Yes**....., are they suitably stored in dry situations**Yes**.... **Insulation Tests**, has the insulation resistance of all circuits and apparatus been megger tested and found satisfactory**Yes**....

DESCRIPTION OF GENERATOR	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel
MAIN	1	5	110	45.5	650	Steam engine	---	---
EMERGENCY								
ROTARY TRANSFORMER								

DESCRIPTION	KILOWATTS	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return) metres	INSULATED WITH	HOW PROTECTED.
		No. In Parallel Per Pole	Sectional Area or No. and Dia. of Strands. Sched. mm.	In the Circuit	Rule			
MAIN GENERATOR	5	1	10	45.5	38.2	5	Rubber	Lead covered & armoured
" " EQUALISER								
EMERGENCY GENERATOR.....								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible]

WIRELESS	1	2.5	2	12.8	50	Rubber
NAVIGATION LIGHTS						
LIGHTING XXXXXXXXXX						
Saloon accommodation	1	4.0	10	22.2	40	"
Officers' accommodation	1	2.5	9	12.8	15	"
Crew space forward	1	2.5	4	12.8	80	"
Crew space aft	1	2.5	3	12.8	60	"
Deck forward	1	2.5	3	12.8	60	"
Deck aft	1	2.5	3	12.8	45	"
Secondary batteries	1	6.0	28	29.2	30	"

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 compass15 metres.....

Minimum distance between electric generators or motors and steering compass14 metres.....

The nearest cables to the compasses are as follows:—

A cable carrying1..... Ampères4..... feet from standard compass6..... 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 powerYes.....

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been notedYes.....

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 caseNo..... If so, state name of vessel

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

..... This electric installation has been examined, megger tested and tested under working conditions and found satisfactory.

Total Capacity of Generators5..... Kilowatts.

The amount of Fee Kr. 95:00

Travelling Expenses (if any) Kr. —

When applied for,
12/12 19.45.
When received
..... 19.....

.....
Surveyor to Lloyd's Register of Shipping.

Committee's Minute
FRI 8 FEB 1948

Assigned
see minutes
on Rph. 8 & 9

(The Surveyors are requested not to write on or below the space for Committee's Minute.)

