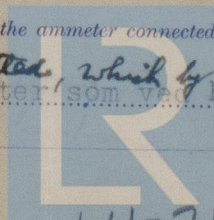


Report on Electrical Equipment.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

12 APR 1948

Received at London Office.....

Date of writing Report 3rd April 1948 When handed in at Local Office 10th April 1948 Port of OsloSurvey held at Arendal & Moss Date, First Survey 13th Nov 1947 Last Survey 20th March 1948
No. in Reg. Book. (Number of Visits 5)on the S/S "HENKEN" S.S. "HENKEN" Tons {Gross 497
Net 180Built at Beverley By whom built Cook, Walton & Gemmell Yard No. When built 1943Owners Anton Steen's Rederi Port belonging to BergenElectrical Installation fitted by A/S Pusnes mek. Verksted Contract No. When fitted 1948Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D. F. E. S. D. Gy. C. Sub. Sig.Have plans been submitted and approved Yes System of Distribution two wire 2-ledere Voltage of supply for Lighting 110 V.Heating..... Power..... Direct ~~Al~~ Current, Lighting..... 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 atrip 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 theyarranged to run in parallel ✓ are shunt field regulators provided ✓ 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 ✓ Position of Generators placed in engine room on port sideis 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 ✓ and vertically ✓ 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 i maskinen in engine room after end.are 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 ✓ and vertically ✓ what insulationmaterial is used for the panels Sindanyo Ebony 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 ✓ 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 insideside of switches Yes Description of Main Switchgear for each generator and arrangement of equaliser switches består av 2 polerte hoved-bryter, hovedsikringer, volt-ohm-meter, amp-meter. Double pole main circuit breaker, volt-ohm-meter, ampere meter.and for each outgoing circuit to polet knivbryter med sikringer. Double pole knife switch with fuses.Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard ✓ammeters ✓ voltmeters ✓ synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection ✓ Earth Testing, state means provided a volt-ohm meter fitted, which by means of a switchkan kobles inn hvor som helst. oppsatt et volt-ohm meter som ved hjelp av bryter.

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Foundation

W1071-0104/2

PARTICULARS OF GENERATING PLANT.							
DESCRIPTION OF GENERATOR	No. of	R A T E D A T				D R I V E N B Y	W H E R E D R I V E N B Y A N I N T E R N A L C O M B U S T I O N E N G I N E
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.
MAIN 1	One	7.5	110	68	500	Steam engine	
EMERGENCY							
ROTARY TRANSFORMER							

DESCRIPTION	KILOWATTS	CONDUCTORS		MAXIMUM CURRENT IN AMPERES		APPROX. LENGTH (lead plus return feet).	INSULA- TED WITH	HOW PROTECTED.
		No. in Parallel Per Pole	Sectional Area or No. and Dia. of Strands, Sq. ins. or sq. mm.	In the Circuit	Rule			
MAIN GENERATOR	7.5	7	25 mm ²	68	80	5 m	SAB Rubber	Lead covered and armoured
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR ...								
" " GENERATOR ...								

AUX. SWITCHBOARDS AND SECTION BOARDS ...								
H.L. akter aft	1	4 mm. ²	8	22.5	10	SAB.	Rutter	
H.L. bro bidge	1	4 "	12	22.5	30	SAB.	"	Lead covered and
H.L. forut forward	1	2.5 "	8	15	40	SAB.	"	armoured

[illegible]

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.

for *1/2 PIJNES MEK. VERKSTED* Electrical Engineers. Date *3-3-48*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *10 m.*

Minimum distance between electric generators or motors and steering compass *10 m.*

The nearest cables to the compasses are as follows:—

A cable carrying Ampères 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 *✓* 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 *✓* If so, state name of vessel *✓*

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

The electrical installation on this vessel has been examined during the fitting up of the generators, cables and switchboards. The materials employed appear to be good, and the workmanship is good.

The installation has been carried out in accordance with the approved plans and the Secretary's letters in connection therewith.

The installation was tested as required by the Rules and found to be satisfactory and efficient.

It is recommended that this installation be classed in the Society's Register Book.

Total Capacity of Generators *7.5* Kilowatts.

The amount of Fee *100* Kr.

Travelling Expenses (if any) Kr.

When applied for,

3/4 1948

When received

10/4/1948

B. Swinton J. Purdie
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned *See Rpt. 9*

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



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