

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report.....19..... When handed in at Local Office.....23.1.1941..... Port of.....NEWCASTLE-on-TYNE.....
 No. in Survey held at Walker-on-Tyne Date, First Survey 17 Dec 1940 Last Survey 9 Jan 1941
 Reg. Book. (Number of Visits.....5.....)
 on the SS. SARKÖY
 Built at Walker-on-Tyne By whom built Swan Hunter & Wigham R. Yard No. 1676 Tons { Gross 691
 Net 265
 When built 1941
 Owners H. M. Government Port belonging to Newcastle
 Electrical Installation fitted by Clarke Chapman & Co. Ltd. Contract No. 1676 When fitted 1941
 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 Yes System of Distribution Two wire Voltage of supply for Lighting 110
 Heating Power Direct or Alternating Current, Lighting Direct 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 Yes
 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
 Negative 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 Yes and the results found as per rule Yes Are the lubricating arrangements and the construction
 of the generators as per rule Yes Position of Generators Engine room Starboard 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 Engine room starboard side
 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 Ebony Sindanyo, 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 quick break Knife switches and double pole fuses.

and for each outgoing circuit Double pole quick break Knife switches and double pole fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard one
 ammeters 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 coupled to earth via switches & fuses

and where are the controlling switches fitted....., are all fittings suitably ventilated.....
are all fittings and accessories constructed and installed as per Rule..... Searchlight Lamps, No. of one, whether fixed or portable fixed
....., 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.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	1	10	110	91	600	Single cyl. vertical steam engine		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	10	1	18/073	81	87	20'	v.i.R	Galvanised steel pipe
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR ...								
" " GENERATOR ...								

[illegible]

DESCRIPTION	QTY	UNIT	PRICE	TOTAL	REMARKS			
WIRELESS	1		7/026	8	24	200'	V.I.R	Galvanised steel p.p.
NAVIGATION LIGHTS	1		7/027	4	P.2	200'	V.I.R	" " "
LIGHTING AND HEATING	1							
Engine & boiler room	1		7/029	14	18.2	20'	V.I.R	" " "
Accommodation & hold	1		7/052	24	37	180'	V.I.R	" " "
Projector	1		7/054	9.2	21	400'	V.I.R	" " "

[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 Clarke, Chapman & Co., Ltd.

W. Taylor

Electrical Engineers.

Date 14-1-41

COMPASSES.

Minimum distance between electric generators ~~or motors~~ and standard compass 80'

Minimum distance between electric generators ~~or motors~~ and steering compass 70'

The nearest cables to the compasses are as follows:—

A cable carrying 14 Ampères inside feet from standard compass — feet from steering compass.

A cable carrying 10 Ampères — feet from standard compass inside feet from steering compass.

A cable carrying 4 Ampères 10 feet from standard compass 5 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 7 1/2 degrees on every course in the case of the standard compass, and 7 1/2 degrees on every course in the case of the steering compass.

SWAN, HUNTER, & WILKINSON LTD

Builder's Signature.

Date 21-1-41.

DIRECTOR

Is this installation a duplicate of a previous case Yes If so, state name of vessel ECEABAT

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

The electrical equipment of this vessel was installed under special survey. The workmanship and materials used are good.

The running, compounding and regulation of the generators set were tested. The insulation resistance of each circuit measured and found satisfactory.

In my opinion the installation is suitable for a class vessel.

Noted
L.H.
28/1/41.

Total Capacity of Generators 10 Kilowatts.

The amount of Fee £ 10 : 0 : 0

When applied for,

23 JAN 1941

Travelling Expenses (if any) £ : : 19

When received.

19

L.H. Bowen

Surveyor to Lloyd's Register of Shipping.

FRI. 31 JAN 1941

Committee's Minute

Assigned See Nav. J.C. 99141



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