

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

MAY 20 1940

Date of writing Report.....19..... When handed in at Local Office..... 8/5/40 Port of..... NEWCASTLE-on-TYNE

No. in Survey held at..... NEWCASTLE Date, First Survey..... 25-4-40 Last Survey..... 29-4-19 40
Reg. Book. Suppl. (Number of Visits..... 2.....)

16627 on the..... T.S.S. COLLINGWOOD Tons { Gross..... 89.80
Net..... 39.06

Built at..... Newcastle (Willington Quay) By whom built..... Clelands (Successors) Ltd. Yard No. 51 When built..... 1940

Owners..... Tyne Improvement Commission Port belonging to..... NEWCASTLE

Electrical Installation fitted by..... Campbell & Isherwood Ltd. Contract No. 51 When fitted..... 1940

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

Positive 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 port 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 port 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..... 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

Circuit breaker with overload and no-volt trips.

and for each outgoing circuit..... Double pole Knife switch 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.....**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**

PARTICULARS OF GENERATING PLANT.							WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	Fuel Used.	Flash Point of Fuel.
		Kilowatts.	Volts.	Ampères.	Revs. per Min.			
MAIN	1	2½	40	22.5	620	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	2½	1	7/0 A.A.	23	81 ✓	16	V.I.R	In galvanised steel conduit.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

[illegible][illegible][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.

CAMPBELL & ISHERWOOD, LTD.

PER

John Meade

Electrical Engineers.

Date *1st May 1940*

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.

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

Has the effect of switching on and off circuit, 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

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 material employed are good. On conclusion, a governing and compensating of the generator set was tested under working conditions. A insulation resistance of each circuit measured, and found satisfactory. In my opinion, the electrical installation is suitable for a classed vessel.

Noted

L. J.

22/5/40.

Total Capacity of Generators..... *2½* Kilowatts.

The amount of Fee £ *5* : -

When applied for,

17 MAY 1940

.....19.....

Travelling Expenses (if any) £ : :

When received.

4/6 19*40*

H. L. Bowen
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned.....

See Acc. J.E. 98510



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Foundation