

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office FEB - 8 1940

Date of writing Report. 24-1-1940 When handed in at Local Office. 5 FEB 1940 Port of SUNDERLAND

No. in Survey held at SUNDERLAND Date, First Survey 27-11-39 Last Survey 29 Jan 1940
(Number of Visits.....)Reg. Book. Supp. 28767 on the S.S. DAYDANT Tons { Gross. 4725 4768
Net. 2780 2772

Built at SUNDERLAND By whom built Hm. PICKERSCILL & SONS Yard No. 241 When built 1939

Owners Claymore Shipping Co. Ltd. Port belonging to CARDIFF

Electrical Installation fitted by Sunderland Forge & Eng'g. Co. Ltd. Contract No. 241 When fitted 1939

Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes 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 110 Direct or Alternating Current, Lighting Direct Power Direct 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 No, 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 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 changeover Knife Switch and double pole fuses

and for each outgoing circuit Single 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. Yes and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,
steam and oil. Yes, 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. Yes 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	12.5	110	109	550	Single cyl. vertical		
						steam engine		
EMERGENCY ...	1	4.25	110	38.5	1000	Diesel		
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT		APPROX. LENGTH (lead plus return feet).	INSULA- TED 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	12.5	1	27/083	109	184 ✓	52	V.I.R	In galvanised steel
" " EQUALISER								pipe
EMERGENCY GENERATOR	4.25	1	19/064	38.5	83 ✓	120	V.I.R	L.C.A.B
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.

H. Sunderland *Yongling 60 H.P.*
H. E. Eames

Electrical Engineers.

Date *1-2-1940*

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

140'

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

150'

The nearest cables to the compasses are as follows:—

A cable carrying *5* Ampères *5* feet from standard compass *5* feet from steering compass.

A cable carrying *23* Ampères *inside* feet from standard compass *—* feet from steering compass.

A cable carrying *23* Ampères *—* feet from standard compass *inside* 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 *Nil* degrees on *every* course in the case of the standard compass, and *Nil* degrees on *every* course in the case of the steering compass.

Builder's Signature.

Date.....

W. J. Tichersgill
FOR W. J. TICHERSGILL & SONS, LIMITED

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 equipment of this vessel was installed under special survey. On completion the governing regulation and compensating of the generator set have been made under working conditions and the insulation resistance of each winding measured. The workmanship and materials used are good. In my opinion the installation is suitable for a classed vessel.

Noted
W. J. Tichersgill
9/2/40.

Total Capacity of Generators *16.75* Kilowatts.

The amount of Fee ... £ *16 : 0*

When applied for,

24 Jan 1940

Travelling Expenses (if any) £ :

When received.

19/2/1940 20/2

W. J. Tichersgill

Surveyor to Lloyd's Register of Shipping.

TUE. 20 FEB 1940

Committee's Minute

Assigned.....

See Std. 76 32798



© 2021

Lloyd's Register Foundation