

Rpt. 13.

No. 3554

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

6 JUL 1942

Date of writing Report... 24th June 1942 When handed in at Local Office... 19... Port of... LISBON
No. in Survey held at... LISBON Date, First Survey... May 1st Last Survey... 16th June 1942
Reg. Book. (Number of Visits... 5)
on the... Motor Trawler "PORT MADOC"
Built at... Lisbon By whom built... Cia. União Fabril Yard No. 113 Tons { Gross 307 Net 128
Owners... Loch Fishing Co. Port belonging to... Huel.
Electrical Installation fitted by... Cia. União Fabril Contract No. When fitted 1942
Is 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 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... 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... Starboard side of 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... forward end of engine room.

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 sin damp 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 linked

switch with fuse on each pole.

and for each outgoing circuit... Double pole linked switch with fuse on each pole.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard...

ammeters... 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.



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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....., whether fixed or portable....., are their fittings as per Rule..... Heating and Cooking, is the general construction as per Rule....., are the frames effectively 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.....*Yes* 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.....*Yes* are they of an approved type.....*Yes* 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	17.5	110	160	1000	Aux. O.I. ENGINE	Diesel oil	Above 150°F.
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED 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	17.5	1	37.083	160	296	20	Paper	Lead covered + armoured
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

[illegible][illegible][illegible]

Switches, Circuits

per Rule. *Yes*

under working conditions

Cables, are they

tate maximum

quare inch and at

with insulating cover

water or oil, in

protected. *✓*

ported and protected

all lead sheathing

all cables passing

ms, etc., are the

groups of lights

ble pole switches.

omatic indicator

ings, are all fitted

alled where readily

where are the com

all fittings and acc

the frames effect

lled as per Rule.

and oil. *Yes*

motors of 100 B

BHP intended for

as per Rule.

than 150° F. Ha

ey of an approved

✓ Spar

ons. *Yes*

DESCRIPTION OF GENERATOR.

No.

AGENCY

BY FORMER

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.

Alexandre
COMPANHIA UNIAO FABRIL
Arrendataria do
ESTABELECI-
MENTO NAVAL DA AGUAFIL

Electrical Engineers.

Date *26th June 1942*

COMPASSES.

Minimum distance between electric generators or motors and standard compass. *24'-0"*

Minimum distance between electric generators or motors and steering compass. *18'-0"*

The nearest cables to the compasses are as follows:—

A cable carrying *6* Ampères *5* feet from standard compass *4* feet from steering compass.

A cable carrying *17* Ampères *17* feet from standard compass *10* 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 *nil* degrees on *any* course in the case of the

standard compass, and *nil* degrees on *any* course in the case of the steering compass.

Alexandre
COMPANHIA UNIAO FABRIL
Arrendataria do
ESTABELECI-
MENTO NAVAL DA AGUAFIL

Builder's Signature.

Date *26 June 1942*

Is this installation a duplicate of a previous case *Yes* If so, state name of vessel *PORT JACKSON (Keworth)*

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

The above electrical installation has been satisfactorily fitted on board this vessel in accordance with the approved plan and the Society's Rules. The insulation tested throughout and the installation examined under working conditions + found satisfactory.

The dynamo test certificate was not forwarded to this office.

The installation in my opinion is eligible to be classed.

Noted
Mm
9.7.42

Total Capacity of Generators *17.5* Kilowatts.

The amount of Fee ...

Inclusive
fee Hull Reg.

When applied for, *19*

Travelling Expenses (if any)

When received, *19*

Committee's Minute

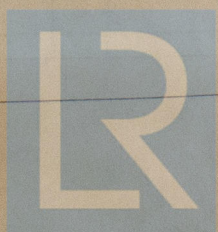
Assigned

See Lis 3554

G. Simon

Surveyor to Lloyd's Register of Shipping.

(MADE IN ENGLAND.)
2m.10.38.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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