

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report..... 15. 8. 1940 When handed in at Local Office..... 22 AUG 1940 Port of..... HULL

No. in Survey held at..... Hull Date, First Survey..... 21. 6. 40 Last Survey..... 12. 8. 1940
Reg. Book..... (Number of Visits..... 6)on the Steam Trawler VIZALMA. Tons { Gross..... 608
Net..... 205

Built at..... Doverley By whom built..... Cook, W. & Son Ltd Yard No..... 656 When built..... 1940-8

Owners..... Little's Steam Towing Co Ltd Port belonging to..... Grimsby

Electrical Installation fitted by..... Wm. Broady & Sons Contract No..... When fitted..... 1940-8

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..... Parallel (Bulbair Current 2 wire) Voltage of supply for Lighting..... 100

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..... Yes 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

..... 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, adjacent to Generator

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..... Slate, if of synthetic insulating material is it an Approved Type....., 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.....

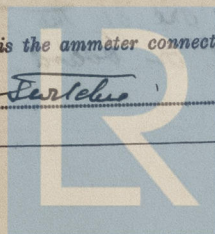
D.P. switches & fuses

and for each outgoing circuit..... D.P. Change over switches & fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule..... Instruments on main switchboard..... 2

ammeters..... 2 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 & Earthing



Are all lead sheaths, armouring and conduits effectually bonded and earthed Yes Refrigerated chambers, are the cables and fittings as per Rule Yes

Are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands Yes, where unarmoured cables pass through beams, etc., are the holes effectually bushed Yes and with what material Lead Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule Yes Emergency Supply, state position CR No

and method of control ✓

Navigation Lamps, are they separately wired Yes controlled by separate double pole switches Yes and fuses Yes Are the switches and fuses in a position accessible only to the officers on watch Yes, is an automatic indicator fitted CR No Secondary Batteries, are they constructed and fitted as per Rule CR No, are they adequately ventilated ✓

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present CR No, if so, how are they protected ✓

PARTICULARS OF GENERATING PLANT.

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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	One	10	100	100	300	Steam Engine	"	"
EMERGENCY	Only one of the two dynamo's originally intended for this vessel has been fitted on board. The second dynamo will be fitted when available. —							
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.			
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

AUX. SWITCHBOARDS AND SECTION BOARDS ...	Gre.	7/036	12	24	120	V.I.R.	Arm ^d & L.C
Afta deck & Accomodation	"	"	12	24	200	"	do
→ 's Castle.	"	7/064	42	46	170	"	do
Bridge, Chart room etc.	"	7/029	6	15	170	"	do
Navigation.	"	7/036	12	24	14	"	do.
Engine room							

[illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.
		CYone.
* The fuses fitted in the sub distribution boards are not of an approved type, but new of defective supply have been accepted by the Admiralty.		
In addition to the circuits enumerated above Special Circuits have been fitted to Admiralty requirements of which no details are available.		

* The fuses fitted in the sub distribution boards are not of an approved type, but new of different type of supply have been accepted by the Admiralty.

In addition to the Circuit summaries above special circuits have been fitted to Admiralty requirements of which no details are available.

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.

WM BROADY & SON LTD.
2ND FLOOR,
HULL.

Electrical Engineers.

Date 16 Aug 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 Amperes feet from standard compass feet from steering compass.

A cable carrying Amperes feet from standard compass feet from steering compass.

A cable carrying Amperes 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 circuits, 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.

Yes

If so, state name of vessel

ST APOLLO & ST ZENO.

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

This installation has been fitted on board under Special Survey in accordance with the plan approved on the 6th June 1940 for the ST APOLLO and with the Rules, except as mentioned on leaf. The workmanship & materials are good & when tried under full working conditions & tested as prescribed it was found satisfactory in every respect.

Noted

11/9/40.

Total Capacity of Generators 20 Kilowatts.

The amount of Fee £ 10 : 0 :

When applied for,

15 AUG 1940

Travelling Expenses (if any) £ :

When received,

21st Sept 1940

Lloyd's Register of Shipping

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See minute on FE machine