

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

JUL 22 1940

Received at London Office.....

Date of writing Report..... 25-6-1940 When handed in at Local Office..... 19..... Port of..... HULL.

No. in Survey held at..... HULL. Date, First Survey..... 31.2.40. Last Survey..... 25.6.1940.
Reg. Book. (Number of Visits..... 5.....)

on the Steam Trawler ST APOLLO Tons { Gross 499
Net 207

Built at Beverley By whom built Cox, Wallon & Gammel Yard No. 654 When built 1940-6

Owners The Admiralty Port belonging to Hull

Electrical Installation fitted by The Humber Shipwrights Ltd Contract No. ✓ When fitted 1940-6

Is vessel fitted for carrying Petroleum in bulk ✓ Is vessel equipped with D.F. ✓ E.S.D. ✓ Gy.C. ✓ Sub.Sig. ✓

Have plans been submitted and approved Yes System of Distribution Parallel Constant current Two 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 ✓ 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 generators

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 Yes 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

DP Switches & fuses.

and for each outgoing circuit DP. Charge 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 with charge over switches



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situations..... *✓* 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 ...	Gne.	10	100	100	360.	Steam Engine	✓	✓
Provision is made for fitting a second ^{10 KW} dynamo when this is available. The dynamo originally intended for the vessel having been commandeered by the Admiralty.								
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feed).	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.	Fuse.			
MAIN GENERATOR	10	Cu	19/083	100	118	30	V.I.R.	In Conduit
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

AUX. SWITCHBOARDS AND SECTION BOARDS
Whitcomb	6m	7/036	20	24		V.R.	
Offic Deck - Accommodation	6m	7/036	18	24	120	V.R.	Ordnal & LC
4th castle	"	"	12	24	300	"	do
Pondor Chart room etc.	"	7/064	42	46	170	"	do
Classifications -	"	7/029	6	15	170	"	do
- Crane room		7/036	12	24	14	"	do

	GMC	Max.	V.I.R	L.E.
WIRELESS	7/036	20	24 ✓	170
NAVIGATION LIGHTS	3/029	16	5 ✓	260
LIGHTING AND HEATING ,	3/029	24	5 ✓	40
	1/044	24	5 ✓	40

L.E. Arrow & Brackets
Also some H.R. type
in accommodation

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
			<u>cyfone</u>					

* The fuses fitted in the sub distribution boards are not of an approved type but in view of difficulties of supply have been accepted by the Admiralty.
The clamping lights are controlled by S.P. switches but have a master D.P. switch controlling the board which is in the wheel house.
In addition to the circuits enumerated above & the 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.

THE HUMBER SHIPWRIGHT CO. L^{td}

ST. ANDREW'S DOCK, HULL.

Ed Green
Managing Secretary

Electrical Engineers.

Date 12 July 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 to 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..... 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 Installation has been fitted on board under Special Survey in accordance with the approved plan & the Rules except as mentioned over leaf. The workmanship & materials are good & when tried under working conditions & tested as prescribed it was found satisfactory in every respect.

25/7/40.

Total Capacity of Generators..... 20 Kilowatts.

The amount of Fee ... £ 10 : 0 :

When applied for,

25.6.19.40

Travelling Expenses (if any) £ : :

When received.

5.7.19.40

Committee's Minute.....

FRI 2 AUG 1940

Assigned.....

See FE machy 2/1

Dykes & Co
Surveyors to Lloyd's Register of Shipping.



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