

Rpt. 13.

No. 56014

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

4 - OCT 1949

Received at London Office

6 OCT 1949

Date of writing Report 19 When handed in at Local Office 19 Port of HULL.
 No. in Survey held at HULL. Date, First Survey 2.8.49 Last Survey 25.8.1949
 Reg. Book. (No. of Visits 4)
 22619 on the Steam Trawler "PRINCE CHARLES".
 Built at Beverley By whom built Cook, Welton & Gemmell Ltd. Yard No. 804 When built 1949
 Owners Boston Deep Sea Fishing & Ice Co., Ltd. Port belonging to Hull
 Installation fitted by Wm. Broady & Son, Ltd. When fitted 1949
 Is vessel equipped for carrying Petroleum in bulk No. Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. No Sub.Sig. No Radar Yes

Plans, have they been submitted and approved Yes System of Distribution two wire Voltage of Lighting 110
 Heating 110 Power - D.C. or A.C., Lighting D.C. Power - If A.C. state frequency -
 Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted
 with a trip switch No Generators, are they compound wound Yes, and level compounded under working conditions Yes
 if not compound wound state distance between generators - and from switchboard - Are the generators 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

Position of Generators Engine room starboard side.
 is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and
 damage from water, steam and oil Yes Switchboards, where are main switchboards placed Engine room starboard
 side aft bulkhead.
 are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,
 steam and oil Yes, what insulation 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 construction as per Rule, including locking of screws and nuts Yes Description of Main Switchgear
 for each generator and arrangement of equaliser switches Double pole, single throw, quick break knife
 switches and double pole fuses.

and the switch and fuse gear (or circuit breakers) for each outgoing circuit Double pole, double throw quick break
 knife switches & double pole fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard two
 ammeters two voltmeters - synchronising devices. For compound machines in parallel are the ammeters and reversed current
 protection devices connected on the pole opposite to the equaliser connection - Earth Testing, state means provided Lamps
 coupled to earth via switches & fuses.

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes
 make of fuses G.E.C. Type 5856B, are all fuses labelled Yes If circuit breakers are provided for the generators, at what
 overload do they operate - and at what current do the reversed current protective devices operate -

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule Yes

Cables, are they insulated and protected as per Rule Yes, if otherwise than as per Rule are they of an Approved Type -
 state maximum fall of pressure between bus bars and any point under maximum load 3V, are the ends of all cables having a sectional
 area of 0.01 square inch and above provided with soldering sockets Yes Are all paper insulated and varnished cambric insulated
 cables sealed at the ends - Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil,
 high temperatures or risk of mechanical damage Yes, are any cables laid under machines or floorplates No, if so, are they
 adequately protected - Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduit -
 or of the "HR" type - State how the cables are supported or protected In machinery spaces etc. L.C.A. & B.
 clipped to tray plates or direct to steel work, in accommodation etc. L.C. clipped to wood
 battens or direct to woodwork.

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

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Lloyd's Register
Foundation

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory..... Yes

DESCRIPTION OF GENERATOR.		No. of	MAKER.	RATED AT				PRIME MOVER.	
				Kilowatts per Generator.	Volts.	Ampères.	Revs. per Min.	TYPE.	MAKER.
MAIN ...	1	Harland Engineering	35	110	320	550	Steam	Bellics & McCormick	
	1	G.E.C. ST4723/20.	15	110	136	1500	Diesel	Perkins 21562.	
EMERGENCY ...									
ROTARY									
TRANSFORMER									

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATION.	PROTECTIVE COVERING.
		No. in Parallel per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	35	1	61/.103	320 ✓	332	36	V.I.R.	L.C.
" " EQUALISEE	15	1	27/.072	136 ✓	152	50	"	"
			37					
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR ...								
" " GENERATOR...								

[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.

WILLIAM BROADBENT & CO. LTD.
ENGLISH ELECTRIC
HULL

Electrical Contractors.

Date 1.9.49.

COMPASSES.

Have the compasses been adjusted under working conditions. Yes

COOK, WELTON & GEMMELL, LTD.

A. D. Campbell
Director

Builder's Signature.

Date 8.9.49

Have the foregoing descriptions and schedules been verified and found correct. Yes

Is this installation a duplicate of a previous case. Yes If so, state name of vessel "PRINCE PHILIP".

Plans. Are approved plans forwarded herewith. No If not, state date of approval 29/9/48.

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith.

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 in accordance with the approved plans and the Rules.

The materials used are of good quality and the workmanship is good.

On completion the equipment was operated under working conditions with satisfactory results and the insulation resistance of all circuits and apparatus was measured and found good.

This equipment is in my opinion suitable for a classed vessel.

Note sent 3/11/49

Total Capacity of Generators 50 Kilowatts.

The amount of Fee ... £ 20 : - : 7

When applied for,

4 OCT 1949

When received,

19

Travelling Expenses (if any) £ : :

A. G. Gemmell

Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 4 NOV 1949

Assigned See F.E. McKay report.