

20 NOV 1959

Rpt. 13.

No. 8725

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report 11. 11. 19 59. When handed in at Local Office 19. Port of PLYMOUTH

No. in Survey held at APPLIEDORE Date, First Survey 20.10.59 Last Survey 13.11.1959.

Reg. Book. (No. of Visits Five.) Tons Gross 144.75 Net

on the "STRANTON" Built at Appledore By whom built P.K. Harris & Sons Yard No. 124 When built 1959 11

Owners British Transport Commission Port belonging to W. Hartlepool Installation fitted by Mann Egerton & Co. Norwich When fitted 1959 11

Is vessel equipped for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No Radar No

Plans, have they been submitted and approved Yes System of Distribution Constant Pressure Voltage of Lighting 110 2 wire parallel

Heating --- Power 110 D.C. or A.C., Lighting D.C. Power D.C. 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 --- Generators, are they compound wound Yes, and level compounded under working conditions Yes

Are the generators arranged to run in parallel No Is the compound winding connected to the negative or positive pole positive

Have machines 100 kw. and over been inspected by the Surveyors during manufacture and testing --- Have certificates of test for machines under 100 kw. been supplied and the results found as per Rule Yes Position of Generators Engine Room 46 KW Port & Starbd. 15 KW Port Aft

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 For'd

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 Paxoline, 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 46 KW OL & RC Breakers operated by Contactors Additional fuses fitted between Main Generator and Contactors. Contactors for equalisers 15 KW D.P. Switch and fuse and the switch and fuse gear (or circuit breakers) for each outgoing circuit D.P. Switches & fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 5 ammeters 4 voltmeters --- synchronising devices For compound machines in parallel are the ammeters and reverse current protection devices connected on the pole opposite to the equaliser connection Yes Earth Testing, state means provided Earth lamps & switches Preference Tripping, state if provided None, and tested ---

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes make of fuses Dennis, are all fuses labelled Yes If circuit breakers are provided for the generators, at what overload do they operate 495 A. Port 500 A. Stbd. and at what current do the reverse current protective-devices operate 45 amps Cables, are they insulated and protected as per Rule Yes

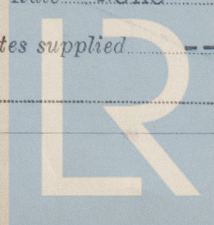
if otherwise than as per Rule are they of an Approved Type ---, state maximum fall of pressure between bus bars and any point under maximum load 2 volts. Are all paper insulated and varnished cambric insulated cables sealed at the ends ---

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 --- State type of cables (if in conduit this should also be stated) in machinery spaces Butyl Fire Braided, galleys Butyl Fire Braided and laundries --- State how the cables are supported or protected On trays or clipped to bulkheads

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 None

Have refrigeration fan motors been constructed under survey --- and test certificates supplied ---

Are the motors accessible for maintenance at all times ---



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

[illegible][illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.								
Steering Gear	1	4	1	7/064	34	80	140	Butyl	Sheathed & Fire	
Air Compressor	1	15	1	19/064	116	123	134	"	Braided	
Gear Lub. Oil Pump	1	3	1	7/064	24	80	152	"	"	"
Fire & Salvage Pump	1	15	1	61/103	490	572	76	"	"	"
Windlass	1	10	1	19/064	70	123	92	"	"	"
F.W. Circ. Pump	1	5	1	7/064	43	80	102	"	"	"
Gen. Service Pump	1	5	1	7/064	40	80	134	"	"	"
O.F. Transfer	1	$\frac{5}{4}$	1	7/036	7	30	102	"	"	"
Lub. Oil Purifier	1	$1\frac{1}{2}$	1	19/044	18	30	94	"	"	"

NOTE.—Use Rpt. 13 Continuation Sheet if the above space is insufficient.

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.

W. H. Gifford for M. J. Egerton & Co. Ltd. Electrical Contractors. Date 14-11-59

COMPASSES.

Have the compasses been adjusted under working conditions. Yes

P. K. HARRIS & SONS LTD.

P. K. Harris
SHIPYARD MANAGER

Builder's Signature.

Date 14/11/59

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. "Hart" (Fly. rpt. 8664)

Plans. Are approved plans forwarded herewith. Yes If not, state date of approval.

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

General Remarks. (State quality of workmanship and materials, opinions as to class, etc.)

This Electric installation has been installed on board under Special Survey in accordance with or equivalent to the Rules, Approved plans, and Secretary's letters.

The workmanship and materials are good and when tried under load it was found satisfactory in every respect.

In my opinion it meets the Society's requirements for any Class the vessel is eligible for.

Total Capacity of Generators. 107 Kilowatts.

The amount of Fee ... £ 58 : 1 : When applied for, 16. 11. 19. 59.

Travelling Expenses (if any) £ 9 : 4 : When received, 19.

Digby L. H. Collinson
Surveyor to Lloyd's Register of Shipping.
(Digby L. H. Collinson)

Committee's Minute FRIDAY 22 JAN 1960

Assigned See Apt. 1