

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

22 APR 1942

Received at London Office.....

Date of writing Report. 28th March 42 When handed in at Local Office. 20: 4: 42 Port of. Glasgow 12 AprilNo. in Survey held at. Port Glasgow Date, First Survey. 12. 4. 40 Last Survey. 28th March 1942
Reg. Book. (Number of Visits. 33)on the. Twin screw minesweeper H.M.S. "LLANDUDNO" Tons { Gross.....
Net.....

Built at. Port Glasgow By whom built. Wm. Hamilton & Co. Ltd. Yard No. J1029 When built. 1942

Owners. Admiralty Port belonging to. —

Electrical Installation fitted by. The Sunderland Forge & Co. Ltd. Contract No. J.1029 When fitted. 1942

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

Have plans been submitted and approved. Yes System of Distribution. Two wire Voltage of supply for Lighting. 220

Heating. 220 Power. 220 Direct or Alternating Current, Lighting. D.C. Power. D.C. 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. No

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. Yes, are shunt field regulators provided. Yes Is the compound winding connected to the negative or positive pole

positive 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. in 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. near 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. micarised bars, 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. D.P. Circuit

Breakers for main generators fitted with O.L. and R.C. trips

D.P. switch and fuses for Aux. generator.

and for each outgoing circuit. D.P. switch and fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. — Instruments on main switchboard. 3

ammeters. 3 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.

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 _____

are they of an approved type _____ If portable lamps for use in dangerous spaces are supplied, are they of a self-contained battery-fed flameproof type _____

Yes 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

[illegible]

PARTICULARS OF GENERATING PLANT.						WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.		
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 ...	2	30	225	133	400	Steam engine		
AUX.	1	5	225	22-2	1000	I. C. engine	oil	above 150° F
EMERGENCY ...								
ROTARY TRANSFORMER								

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.

P.Pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD.

Electrical Engineers.

Date 16.4.42

J. C. Shanks

COMPASSES.

Minimum distance between electric generators or motors and standard compass.....

Minimum distance between electric generators or motors and steering compass.....

25 feet

The nearest cables to the compasses are as follows:—

A cable carrying 1 Ampères — feet from standard compass led into feet from steering compass.

A cable carrying .2 Ampères — feet from standard compass 4 feet from steering compass.

A cable carrying 86 Ampères — feet from standard compass 15 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 — degrees on — course in the case of the standard compass, and Nil degrees on any course in the case of the steering compass.

For William Hamilton & Co., Limited,

General Manager.

Builder's Signature.

Date 17 April 1942

Is this installation a duplicate of a previous case.....

Yes

If so, state name of vessel

H.M.S. "TENBY"

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

The electrical equipment of the vessel has been fitted on board under special survey in accordance with the Admiralty Plans, and Specifications, tested under full working conditions, and found satisfactory. The materials, and workmanship are good.

Noted

L. J.

28/4/42

20/4/42

Total Capacity of Generators..... 65 Kilowatts.

The amount of Fee ... £ :

When applied for,

.....19.....

Travelling Expenses (if any) £ :

When received.

.....19.....

J. C. Wright

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 21 APR 1942

Assigned See C&K L.C. Rpt No. 21496.