

# REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

MAR-5

Date of writing Report.....19..... When handed in at Local Office.....3 MAR 1941..... Port of Sunderland  
 No. in Survey held at Sunderland Date, First Survey 18-10-40 Last Survey 13-2-41  
 Reg. Book. Suppl. (Number of Visits.....9.....)  
89972 on the STANFORD Tons {Gross...5969  
 Net...3584  
 Built at Sunderland By whom built L. Pickersill & Sons Yard No. 245 When built 1940  
 Owners Stanley SS Co Port belonging to London  
 Electrical Installation fitted by Campbell & Brown Ltd. Contract No. 245 When fitted 1941  
 Is vessel fitted for carrying Petroleum in bulk no Is vessel equipped with D.F. yes E.S.D. no Gy.C. no Sub.Sig. no

Have plans been submitted and approved yes System of Distribution two wire Voltage of supply for Lighting 110  
 Heating no Power no Direct or Alternating Current, Lighting no Power no If Alternating Current state frequency no 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 no Generators, are they compound wound yes, are they level compounded under working conditions yes,  
 if not compound wound state distance between generators no and from switchboard no 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 no Have certificates of  
 test for machines under 100 kw. been supplied no and the results found as per rule no Are the lubricating arrangements and the construction  
 of the generators as per rule yes Position of Generators Engine room, starboard side  
yes, 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 no and vertically no, 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, starboard side, off  
bulkhead  
 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 no and vertically no, what insulation  
 material is used for the panels Chromyl Sintering, 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 no 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 with automatic trips  
 and for each outgoing circuit double pole quick break knife switches and double  
pole fuses  
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule yes Instruments on main switchboard  
 ammeters no voltmeters no synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the  
 equaliser connection no Earth Testing, state means provided Earth lamps supplied & used in switchgear



PARTICULARS OF GENERATING PLANT.								
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	15	110	136	600	Single cylinder vert. steam engine.		
EMERGENCY ...	1	5	110	45	1200	horizontal		
ROTARY TRANSFORMER								

[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.

CAMPBELL & ISHERWOOD, LTD.

Thomas Ischerwood

Electrical Engineers.

Date 26th Feb 1941

#### COMPASSES.

Minimum distance between electric generators ~~or motors~~ and standard compass 100'

Minimum distance between electric generators ~~or motors~~ and steering compass 90'

The nearest cables to the compasses are as follows:—

A cable carrying .14 Ampères inside feet from standard compass — feet from steering compass.

A cable carrying .14 Ampères — feet from standard compass inside 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 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 nil degrees on every course in the case of the standard compass, and nil degrees on every course in the case of the steering compass.

FOR WM. PICKERSGILL & SONS, LIMITED.

W. J. Pickersgill

Builder's Signature.

Date 1st Mar 41

Is this installation a duplicate of a previous case No 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 electrical equipment of this vessel was installed under special survey. The workmanship and materials used are good. The governing regulation and compensating of the generator sets were tested. The insulation resistance of each circuit measured and found satisfactory. In my opinion, the installation is suitable for a classed vessel.

Noted

L. J.

5/3/41.

Total Capacity of Generators 35 Kilowatts.

The amount of Fee ... £ 23 : 15 : When applied for, 19th Feb 1941

Travelling Expenses (if any) £ : : When received, 19th Feb 1941

L. J. Bowen

Surveyor to Lloyd's Register of Shipping.

Committee's Minute 14 MAR 1941

Assigned See A/c JE 23049