

## REPORT ON ELECTRICAL EQUIPMENT.

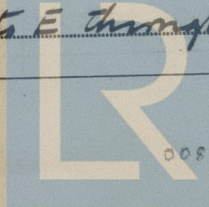
(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

OCT 29 1940

Received at London Office

Date of writing Report. 15th Oct., 1940 When handed in at Local Office. 25-10-1940 Port of Manchester  
 No. in Survey held at Harrison Hill on Sea Date, First Survey 7th Aug. Last Survey 14th Oct., 1940  
 Reg. Book. Lifting Canal "L.C. 11" (J. 4224) Tons { Gross 918  
 Net 814  
 Built at Harrison Hill on Sea By whom built Furness & Co. Ltd. Yard No. 337 When built 1940  
 Owners. The Admiralty Port belonging to Harbourpool  
 Electrical Installation fitted by Furness & Co. Ltd. (Elec. Dept.) Contract No. 337 When fitted 1940  
 Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No

Have plans been submitted and approved. Yes System of Distribution Double wire Voltage of supply for Lighting 220/250  
 Heating Power Direct or Alternating Current, Lighting Yes Power 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 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 Machining space port side on raised  
floor 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 Machining space port side adjacent  
to generating set  
 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 Matte finish "Glasurit" 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 Double pole  
Knife switch and double pole fuse  
 and for each outgoing circuit Double pole knife switch and double pole fuse  
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard One  
 ammeters One voltmeters One synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the  
 equaliser connection Earth Testing, state means provided E lamps coupled to E through sub. of fuses





Navigation Lamps, are they separately wired Yes controlled by separate Yes  
from local S. Co.  
double pole switches \_\_\_\_\_ and fuses \_\_\_\_\_. Are the switches and fuses in a position accessible only to the officers on watch \_\_\_\_\_, is an  
automatic indicator fitted Yes Secondary Batteries, are they constructed and fitted as per Rule \_\_\_\_\_, are they adequately ventilated \_\_\_\_\_  
Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof Yes Are fittings  
installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present Yes, if so, how are they protected \_\_\_\_\_  
\_\_\_\_\_ and where are the controlling switches fitted \_\_\_\_\_, are all fittings suitably ventilated Yes  
are all fittings and accessories constructed and installed as per Rule Yes Searchlight Lamps, No. of \_\_\_\_\_, whether fixed or portable \_\_\_\_\_  
\_\_\_\_\_, are their fittings as per Rule \_\_\_\_\_ Heating and Cooking, is the general construction as per Rule \_\_\_\_\_  
are the frames effectually earthed \_\_\_\_\_, are heaters in the accommodation of the convection type \_\_\_\_\_ Motors, are all motors constructed and  
installed as per Rule \_\_\_\_\_ and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water,  
steam and oil \_\_\_\_\_, if situated near unprotected combustible material state minimum distance from same horizontally \_\_\_\_\_ and vertically \_\_\_\_\_  
Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing \_\_\_\_\_ Have certificates of test for motors under  
100 BHP intended for essential services been supplied and the results found as per Rule \_\_\_\_\_ Control Gear and Resistances, are they constructed and  
fitted as per Rule \_\_\_\_\_ Lightning Conductors, where required are they fitted as per Rule \_\_\_\_\_ Ships carrying Oil having a Flash Point  
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 \_\_\_\_\_ 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

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	1	6	220/225	27.8	650	Single cylinder Steam engine		
	1	1 1/2	3	500	650			
Generators coupled in tandem								
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.					
				In the Circuit.	Reds.			
MAIN GENERATOR ... ..	6	1	7/044	27.3	31	20	V.I.R.	L.C.A.B.
" " EQUALISER ... ..								
DEGAUSSING GENERATOR	1.5	1	9/1103	500	738	20	V.C.	L.C.B. No
EMERGENCY GENERATOR ... ..								
ROTARY TRANSFORMER: MOTOR ... ..								
" " GENERATOR ... ..								

[illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.
<i>no motors fitted</i>		



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. L. G. Jones

W. H. Jones

Electrical Engineers.

Date 23-10-40

#### 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 at 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.....

Yes

If so, state name of vessel

Lifting Camel "L.C. 10"

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

The electrical equipment of this lifting camel has been installed in accordance with approved plans and with the specification. The materials used are of good quality and the workmanship is good. On completion the equipment was run under working conditions with satisfactory results, the insulation resistance of all circuits was measured and the spare gear was examined.

The equipment is in my opinion suitable for a vessel belonging to the Freight class.

Noted

L.Y.

30/10/40.

Total Capacity of Generators..... 6 ..... Kilowatts.

The amount of Fee ... .. £ 12 : - : (including design.)

Travelling Expenses (if any) £ : :

When applied for,

25-10-1940

When received.

25-10-1940

G. H. Harrison

Surveyor to Lloyd's Register of Shipping.

Committee's Minute .....

Assigned.....

See Indt. No. 16914

J. M. Robertson



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