

Rpt. 13.

No. \_\_\_\_\_

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of CARDIFFNo. in Survey held at CARDIFF Date, First Survey..... Last Survey.....19.....  
Reg. Book. (Number of Visits.....)64862 on the M.V. "KING ALFRED" Tons {Gross. 6919  
Net. 4151Built at GREENOCK By whom built GREENOCK DOCKYARD CO. LTD. Card No. .... When built 1941Owners KING LINE LTD. Port belonging to LONDONElectrical Installation fitted by ARCHD. WATSON & DUNDAS, GLASGOW Contract No. .... When fitted 1941Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. .... E.S.D. .... Gy.C. .... Sub.Sig. ....Have plans been submitted and approved Yes System of Distribution Two wire insulated Voltage of supply for Lighting 110Heating - Power 110 Direct or Alternating Current, Lighting D.C. Power - If Alternating Current state periodicity - Prime Movers,has the governing been tested and found as per Rule when full load is suddenly thrown on and off Yes Are turbine emergency governors fitted with atrip 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 theyarranged to run in parallel No, are shunt field regulators provided Yes Is the compound winding connected to the negative or positive poleNegative Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing - Have certificates oftest for machines under 100 kw. been supplied - and the results found as per rule - Are the lubricating arrangements and the constructionof the generators as per rule Yes Position of Generators Lower platform Engine roomis the ventilation in way of generators satisfactory Yes are they clear of inflammable material Yes, if situatednear unprotected combustible material state distance from same horizontally - and vertically -, are the generators protected from mechanicalinjury and damage from water, steam and oil Yes, are the bedplates and frames earthed Yes and the prime movers and generators in metalliccontact Yes Switchboards, where are main switchboards placed Engine Room Starboard sideare they in accessible positions, free from inflammable gases and acid fumes Yes, are they protected from mechanical injury and damage from water, steamand oil Yes, if situated near unprotected combustible material state distance from same horizontally - and vertically -, what insulationmaterial is used for the panels -, if of synthetic insulating material is it an Approved Type Yes, if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule - Is the frame effectually earthed YesIs the construction as per Rule Yes, including accessibility of parts Yes, absence of fuses on the back of the board Yes, individual fusesto 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 KnifeSwitch and double-pole fuseand for each outgoing circuit Double-pole double-throw knife switch and double-pole fuseAre compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 2ammeters 2 voltmeters - synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection - Earth Testing, state means provided Indicating lampsSwitches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an approved type Yes, are all fuses labelled asper Rule Yes If circuit breakers are provided for the generators, at what overload current did they open when tested -, are the reversed currentprotection devices connected on the pole opposite to the equaliser connection -, have they been tested under working conditions, and at what currentdid they operate - Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule YesCables, are they insulated and protected as per the appropriate Tables of the Rules 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 6.6V., are the ends of all cables having a sectional area of 200square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends -



PARTICULARS OF GENERATING PLANT.

## GENERATOR CABLES

GENERATOR CABLES.								
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Poles.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Balance.			
MAIN GENERATOR ... ..	2 x 12	1	19/.083	109	118	-	V.I.R.L.C.B.	
" " EQUALISER ... ..								
EMERGENCY GENERATOR ... ..								
ROTARY TRANSFORMER: MOTOR ... ..								
" " GENERATOR ... ..								

[illegible][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.

Electrical Engineers.

Date

#### 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..... If so, state name of vessel

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

Certificates. Are certificates of test for motors engaged on essential 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 has been examined and found to be in good condition and in accordance with plan. The materials and workmanship are good. The insulation has been megger tested throughout. Generators tested under load, and Engine Governors tested and found satisfactory.

In my opinion this Electrical Equipment is eligible to be classed.

Noted

9.5.

1/12/48

Total Capacity of Generators..... 24 ..... Kilowatts.

The amount of Fee ... .. £	:	:	When applied for,
			..... 19.....
Travelling Expenses (if any) £	:	:	When received.
			..... 19.....

Harish W. G. Paton

Surveyor to Lloyd's Register of Shipping.

Committee's Minute ..... FRI. 1 APR 1949

Assigned



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Lloyd's Register  
Foundation