

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 HULL.No. in Survey held at HULL. Date, First Survey 27. 10. 47 Last Survey 12. 12. 19 47.
Reg. Book. (Number of Visits.....6.....)27429 on the "KING EDGAR". Tons {Gross 7058 7074
Net 4726 4870Built at Glasgow By whom built Harland & Wolff Ltd. Yard No. - When built 1945Owners King Line Ltd. Port belonging to London GLASGOW.Electrical Installation fitted by Harland & Wolff Ltd. Contract No. - When fitted 1945Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. No Sub.Sig. NoHave plans been submitted and approved Yes System of Distribution two wire Voltage of supply for Lighting 110Heating 110 Power - Direct or Alternating Current, Lighting D.C. Power D.C. 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 No 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 Engine room-, is 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 near generator.are 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 "Sindanyo", 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, singlethrow quick break knife switches and double pole fuses.and for each outgoing circuit Double pole, double throw quick break switches and double pole fuses.Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard threeammeters two voltmeters - synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to theequaliser connection - Earth Testing, state means provided Lamps coupled to earth via switches and fuses.Switches, 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 4V, are the ends of all cables having a sectional area of 0.04square inch and above provided with soldering sockets Yes Are paper insulated and varnished cambric insulated cables sealed at the ends -

Are all lead sheaths, armouring and conduits effectively bonded and earthed. Yes Refrigerated chambers, are the cables and fittings as per Rule. -

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 and with what material lead Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. Yes Emergency Supply, state position -

7104 and method of control -

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 No, if so, how are they protected -

are all fittings and accessories constructed and installed as per Rule..... 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.....Yes..... and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water

steam and oil.....**Yes** if situated near unprotected combustible material state minimum distance from same horizontally _____ and vertically _____

100 BHP intended for essential services have _____ Have certificates of test for motors under _____

Control Gear and Resistances, are they constructed and fitted as per Rule **Yes** **steel**

Lightning Conductors, where required are they fitted as per Rule..... masts 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..... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such

Are the cables lead covered as per Rule. Yes Spare Gear, if the vessel is for open sea service have spares been provided as per

Insulation Tests, has the insulation resistance of all circuits and apparatus been tested

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 ...	No. 1	15	110	136	500	Steam engine.		
	No. 2	15	110	136	"	" " "		
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX LENGTH (and plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	15	1	37/.072	136	152	32	V.I.R.	L.C.&B.
" " EQUALIZER	15	1	37/.072	136	152	32	" "	" "
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 112'0"

Minimum distance between electric generators or motors and steering compass 100'0"

The nearest cables to the compasses are as follows:—

A cable carrying .2 Ampères inside 7'0" feet from standard compass 7'0" feet from steering compass.

A cable carrying .2 Ampères 7'0" 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.

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 No If not, state date of approval 5.12.46.

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith No

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

The Electrical installation as now seen is of good quality and the workmanship is good.

Various repairs were carried out at this port to bring the insulation resistance up to the Rule requirements.

The generators, main switchboard & installation generally have been examined, tested under working conditions and found satisfactory.

The installation, as now seen, is in my opinion, such as could be accepted for classification with this Society.

Due to alterations to the after accommodation the installation was stripped out and rewired and additional lights were installed, all bunks being fitted with bunk lights.

Noted - Sent 9/3/48.

Total Capacity of Generators 30 Kilowatts.

The amount of Fee ... £ 10 : - :
Additions & alts. 5 5 :
When applied for, JAN 1948

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

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

19 MAR 1948

Assigned

See minute on Rpt. 9



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