

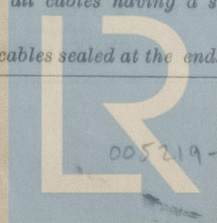
## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

5 NOV 1947

Date of writing Report... 27<sup>th</sup> Oct. 47... When handed in at Local Office... 1. 11. 47... Port of... Glasgow.  
 No. in Survey held at... Laith... Date, First Survey... +... Last Survey... 24<sup>th</sup> Oct. 1947  
 Reg. Book. 32475 on the SS. "BENDORAN" ex "SAMDAUNTLESS" Tons { Gross... 4210  
 Net... 4,395.  
 Built at... Bethlehem, Baltimore... By whom built... Fairfield S.B. Inc. Yard No. — When built... 1944  
 Owners... Ben Line Steamers Ltd. Port belonging to... London  
 Electrical Installation fitted by... Fairfield S.B. Inc. Contract No. — When fitted... 1944  
 Is vessel fitted for carrying Petroleum in bulk... No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Sub-Sig. Radar

Have plans been submitted and approved... System of Distribution... Voltage of supply for Lighting...  
 Heating... Power... Direct or Alternating Current, Lighting... 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... Are turbine emergency governors fitted with a  
 trip switch as per Rule... Generators, are they compound wound... are they level compounded under working conditions...  
 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... Is the compound winding connected to the negative or positive pole  
 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... and the results found as per rule... Are the lubricating arrangements and the construction  
 of the generators as per rule... Position of Generators...  
 is the ventilation in way of generators satisfactory... are they clear of inflammable material... 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... are the bedplates and frames earthed... and the prime movers and generators in metallic  
 contact... Switchboards, where are main switchboards placed...  
 are they in accessible positions, free from inflammable gases and acid fumes... are they protected from mechanical injury and damage from water, steam  
 and oil... if situated near unprotected combustible material state distance from same horizontally... and vertically... what insulation  
 material is used for the panels... if of synthetic insulating material is it an Approved Type... if of  
 semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule... Is the frame effectually earthed...  
 Is the construction as per Rule... including accessibility of parts... absence of fuses on the back of the board... individual fuses  
 to pilot and earth lamps, voltmeters, etc... locking of screws and nuts... labelling of apparatus and fuses... fuses on the "dead"  
 side of switches... Description of Main Switchgear for each generator and arrangement of equaliser switches...  
 and for each outgoing circuit...  
 Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... Instruments on main switchboard...  
 ammeters... 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...  
 Switches, Circuit Breakers and Fuses, are they as per Rule... are the fuses an approved type... are all fuses labelled as  
 per Rule... If circuit breakers are provided for the generators, at what overload current did they open when tested... are the reversed current  
 protection devices connected on the pole opposite to the equaliser connection... have they been tested under working conditions, and at what current  
 did they operate... Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule...  
 Cables, are they insulated and protected as per the appropriate Tables of the Rules... 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... are the ends of all cables having a sectional area of 0.04  
 square inch and above provided with soldering sockets... Are paper insulated and varnished cambric insulated cables sealed at the ends...



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Are all lead sheaths, armouring and conduits effectually bonded and earthed..... 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....., where unarmoured cables pass through beams, etc., are the holes effectively bushed..... and with what material..... **Alternative Lighting, are**

the groups of lights in the engine and boiler rooms arranged as per Rule..... **Emergency Supply, state position.**

Navigation Lamps, are they separately wired..... controlled by separate  
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..... Secondary Batteries, are they constructed and fitted as per Rule....., are they adequately ventilated.....  
what is the battery capacity in ampère hours..... Are fittings  
Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof.....  
installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present....., if so, how are they protected.....

and where are the controlling switches fitted....., are all fittings suitably ventilated.  
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..... 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..... Are  
motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment.....  
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..... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such  
ships..... Are the cables lead covered as per Rule..... Spare Gear, if the vessel is for open sea service have spares been provided as per  
Rule....., are they suitably stored in dry situations..... Insulation Tests, has the insulation resistance of all circuits and apparatus been tested  
and found satisfactory.....

PARTICULARS OF GENERATING PLANT.							
DESCRIPTION OF GENERATOR.	No. of	RATED AT				WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.	Fuel Used.	Flash Point of Fuel.
MAIN ...							
EMERGENCY ...							
ROTARY TRANSFORMER							

GENERATOR DATA							
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.	APPROX. LENGTH (lead plus return feet).	INSULA- TED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.				
MAIN GENERATOR ... ..							
" " EQUALISER ... ..							
EMERGENCY GENERATOR ... ..							
ROTARY TRANSFORMER: MOTOR ... ..							
GENERATOR ... ..							

[illegible]

WIRELESS	...	...	...	...	...	...	...	...
NAVIGATION LIGHTS	...	...	...	...	...	...	...	...
LIGHTING AND HEATING	...	...	...	...	...	...	...	...
Fitted at this time :-								
Searchlight	1	7/064	60	75	312	V.C.	LC	
Gyro (Connected to L7)	1	3/036	6	10	48	HR	-	
Radar	1	19/052	42	64	330	HR	-	



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 repairs recommended in London Report No 115618, together with several additions to the circuits, were carried out at this time, as follows:—  
Repairs:—(1) Alternative supply fitted to navigation lights. (2) No 3 Generator governor adjusted. (3) Low insulation faults removed.  
Additions:— Searchlight, Gyro-compass and Radar cables installed.

On completion of repairs and modifications, above items examined and been under working conditions. No 1 generator tested on load and its circuit-breaker tested for reverse-current tripping. No 3 Generator governing and compounding tried. All the above items found satisfactory.

The installation is now, in my opinion, such as could be accepted for classification as recommended in London Report No 115618, but without limitation regarding repairs.

Total Capacity of Generators ..... 60 ..... Kilowatts.

The amount of Fee ... £ 16 : 0 : 0

When applied for,

4 NOV 1947

Travelling Expenses (if any) £ : :

When received,

19.....

Surveyor to Lloyd's Register of Shipping.

B. Claffner.

Committee's Minute

Assigned Transmit to London

5m.4.38.—Transfer. (MADE AND PRINTED IN ENGLAND.) (The Surveyors are requested not to write on or below the space for Committee's Minute.)

MLD



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