

No. 72258

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Report made at 18th Oct. 1947 When handed in at Local Office 11th Nov. 1947 Port of GLASGOW

Survey held at LEITH Date, First Survey 1st Oct. 1947 Last Survey 6th Oct. 1947 (Number of Visits 2)

on the S.S. "BENVACKIE" ex "SAMAFERIC" Tons Gross 7210 Net 4395

Built at Bethlehem, Baltimore By whom built Fairfield S.B. Inc. Yard No. - When built 1944

Ben Line Steamers Ltd. Port belonging to Leith

Installation fitted by Fairfield S.B. Inc. Contract No. - When fitted 1944

Vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Radar Sub-Sig. -

Plans submitted and approved System of Distribution Voltage of supply for Lighting

Power Direct or Alternating Current, Lighting Power If Alternating Current state periodicity Prime Movers,

governing been tested and found as per Rule when full load is suddenly thrown on and off Are turbine emergency governors fitted with a

Generator, are they compound wound, are they level compounded under working conditions,

compound wound state distance between generators and from switchboard Where more than one generator is fitted are they

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

machines under 100 kw. been supplied and the results found as per rule Are the lubricating arrangements and the construction

Generators as per rule Position of Generators

is the ventilation in way of generators satisfactory are they clear of inflammable material, if situated

protected combustible material state distance from same horizontally and vertically are the generators protected from mechanical

damage from water, steam and oil are the bedplates and frames earthed and the prime movers and generators in metallic

Switchboards, where are main switchboards placed

in accessible positions, free from inflammable gases and acid fumes are they protected from mechanical injury and damage from water, steam

if situated near unprotected combustible material state distance from same horizontally and vertically, what insulation

is used for the panels, if of synthetic insulating material is it an Approved Type, if of

insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule Is the frame effectually earthed

construction as per Rule, including accessibility of parts, absence of fuses on the back of the board, individual fuses

and earth lamps, voltmeters, etc., locking of screws and nuts, labelling of apparatus and fuses, fuses on the "dead"

switches Description of Main Switchgear for each generator and arrangement of equaliser switches

each outgoing circuit

departments containing switchboards composed of fire-resisting material or lined as per Rule Instruments on main switchboard

voltmeters synchronising devices For compound machines in parallel is the ammeter connected on the pole opposite to the

connection Earth Testing, state means provided

Circuit Breakers and Fuses, are they as per Rule are the fuses an approved type are all fuses labelled as

If circuit breakers are provided for the generators, at what overload current did they open when tested are the reversed current

devices connected on the pole opposite to the equaliser connection have they been tested under working conditions, and at what current

operate Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule

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

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

inch and above provided with soldering sockets Are paper insulated and varnished cambric insulated cables sealed at the ends

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010478-010483-01321

Are all lead sheaths, armouring and conduits effectively 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, and position..... and method of control.....

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.....

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof..... Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present..... if so, how are they protected.....

PARTICULARS OF GENERATING PLANT.

GENERATOR CABLES.

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.	In the Circuit.	Rule.			
MAIN GENERATOR								
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
GENERATOR								

[illegible]

WIRELESS
NAVIGATION LIGHTS
LIGHTING AND HEATING
Fitted at this time:-							
Searchlight	1	19/052	60	64	312	H.R.	-
Gyro (Connected to L2)	1	3/036	6	10	48	"	
Radar	1	19/052	42	64	330	"	

MOTOR CABLES

[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 repairs as recommended in London Report No 115564, together with several additions to the circuits, were carried out at this time, as follows:-
Repairs:- (1) Alternative supply fitted to navigation lights. (2) Low insulation faults removed.
(3) Generator voltmeter recalibrated. (4) No. 3 Generator field regulator adjusted.
(5) Distribution fuse boxes overhauled and spare fuses supplied. (6) Burnade and port deck lights rewired.

Additions:- Searchlight, gyro-compass and Radar cables installed.

On completion of repairs and modifications, above items examined and seen under working conditions, I.R. tests taken, and all found satisfactory.

The installation is, in my opinion, now such as could be accepted for classification, as recommended in London Report No 115564, but without limitation regarding repairs.

Total Capacity of Generators 60 Kilowatts.

The amount of Fee ... £ 16 : - : -

When applied for
- 4 NOV 1947

Travelling Expenses (if any) £ : : -

When received
..... 10

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

GLASGOW

4 NOV 1947

Assigned

Transmitted to London

See F.E. mch. rpt.



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