

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

20 JUL 1949

Date of writing Report 11.7.1949 When handed in at Local Office 19 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey 18.2.49 Last Survey 7.7.49 19
Reg. Book. (No. of Visits 14)on the M.V. "BJORN STANGE" Tons { Gross 10099
Net 5895

Built at Sunderland By whom built Sir James Laing & Sons Ltd Yard No. 782 When built 1949

Owners Skis: A/S. Amstien (Lief Høegh & Co) Port belonging to Oslo

Installation fitted by Sunderland Forge & Engineering Co. Ltd. When fitted 1949

Is vessel equipped for carrying Petroleum in bulk Yes Is vessel equipped with D.F. Yes E.S.D. Yes Gy.C. Yes Sub.Sig. - Radar Yes

Plans, have they been submitted and approved Yes System of Distribution 2-Wire m.b. Voltage of Lighting 110

Heating - Power 110 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency -

Prime Movers, has the governing been found as per Rule when full load is thrown on and off Yes Are turbine emergency governors fitted

with a trip switch - Generators, are they compound wound Yes, and level compounded under working conditions Yes

if not compound wound state distance between generators - and from switchboard - Are the generators arranged to run

in parallel Yes, 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

Position of Generators engine room on raised deck Starboard

is the ventilation in way of generators satisfactory Yes are they clear of inflammable material and protected from mechanical injury and

damage from water, steam and oil Yes Switchboards, where are main switchboards placed adjacent to generators

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

steam and oil Yes, what insulation is used for the panels clay "Sindano" 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 construction as per Rule, including locking of screws and nuts. Yes Description of Main Switchgear

for each generator and arrangement of equaliser switches a triple pole (one pole for equaliser) air break circuit

breaker fitted with 5/2 R/V. current tripping devices

and the switch and fuse gear (or circuit breakers) for each outgoing circuit a double pole knife switch & double pole

fuse

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule Yes Instruments on main switchboard 4

ammeters 4 voltmeters - synchronising devices For compound machines in parallel are the ammeters and reversed current

protection devices connected on the pole opposite to the equaliser connection Yes Earth Testing, state means provided E lamps

Switches, Circuit Breakers and Fuses, are they as per Rule Yes, are the fuses an Approved Type Yes

make of fuses "ZED" are all fuses labelled Yes If circuit breakers are provided for the generators, at what

overload do they operate 5% and at what current do the reversed current protective devices operate 40 A

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

Cables, are they insulated and protected as per Rule 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 76 V are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets Yes Are all paper insulated and varnished cambric insulated

cables sealed at the ends Yes Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil,

high temperatures or risk of mechanical damage Yes, are any cables laid under machines or floorplates No, if so, are they

adequately protected - Are cables in machinery spaces, galleys, laundries, etc., lead covered Yes or run in conduit -

or of the "HR" type State how the cables are supported or protected Main feeder L.C.B. (V.C. insulated)

clipped to heavy steel stud with cover plate along fore and aft gangway

In accommodation L.C. cables on the surface and protected as required by wood or metal guards

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

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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.

H. Sunderland Forge & Eng Co Ltd. Electrical Contractors.

Date *12-4-1949*

V. S. Lence

COMPASSES.

Have the compasses been adjusted under working conditions... *yes*

For and on behalf of
SIR JAMES LAING & SONS-LIMITED

Builder's Signature.

Date *14th July 1949*

[Signature]
Director

Have the foregoing descriptions and schedules been verified and found correct... *yes*

Is this installation a duplicate of a previous case... *yes* If so, state name of vessel... *"Hough Road"*

Plans. Are approved plans forwarded herewith... *No* If not, state date of approval... *5.4.3.49; D. 4.4.49.*

Certificates. Are certificates of test for motors engaged on essential sea services and generators forwarded herewith... *yes*

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 installed under special survey in accordance with the approved plans and the "Rules for Electrical Equipment". The materials and workmanship are good. Upon completion, satisfactory trials of the generators were witnessed and the insulation resistance of all circuits was found good. This equipment is in my opinion suitable for a Classed vessel.

Noted sat 8/8/49

Total Capacity of Generators... *(4 x 35) 140* Kilowatts.

The amount of Fee ... *£ 61. 0. 0.*

When applied for,
JUL 18 1949
When received,
19...

Travelling Expenses (if any) £

B. A. Mann
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 12 AUG 1949

Assigned

S. E. E. Moly opt.