

Rpt. 13.

No. 11175

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report June 13th 1923 When handed in at Local Office June 13th 1923 Port of Bristol

No. in Survey held at Birmingham Date, First Survey April 16th Last Survey May 2nd 1923
 Reg. Book. (Number of Visits.....3.....)

80014 on the SINGLE SCREW CARGO STEAMER "MONKSTONE" Tons { Gross 868 approx
 Net 426 "

Built at BIDEFORD. By whom built HANSEN SHIP & SHIP REPAIR COY LTD. Yard No. 6. When built 1923

Owners THE HANSEN SHIPPING COY LTD. Port belonging to LONDON.
CARDIFF

Electric Light Installation fitted by THE HANSEN SHIP & SHIP REPAIR COY LTD. Contract No. When fitted 1923.

System of Distribution TWO WIRE SYSTEM. ✓

Pressure of supply for Lighting 100 VOLTS. ✓ volts, Heating _____ volts, Power _____ volts.

Direct or Alternating Current, Lighting DIRECT. ✓ Power _____

If alternating current system, state frequency of periods per second _____

Has the Automatic Governor been tested and found efficient when the whole load is suddenly thrown on or off YES.

Generators, do they comply with the requirements regarding overload YES, are they compound wound YES

are they over compounded 5 per cent. YES., if not compound wound state distance between each generator _____

Where more than one generator is fitted are they arranged to run in parallel _____, is an adjustable regulating resistance fitted in series with each shunt field _____

Are all terminals accessible and clearly marked YES., are they so spaced or shielded that they cannot be accidentally earthed,

or short circuited YES. Are the lubricating arrangements of the generators as per Rule YES.

Position of Generators ON FLAT AT LEVEL OF R.Q. DECK. IN ENGINE ROOM.

is the ventilation in way of the generators satisfactory YES., are they clear of all inflammable material YES.

if situated near unprotected woodwork or other combustible material, state distance of same horizontally from or vertically above the generators

_____ and _____, are the generators protected from mechanical injury and damage from water, steam or oil YES.

are their axis of rotation fore and aft YES.

Earthing, are the bedplates and frames of the generating plant efficiently earthed YES. are the prime movers and

their respective generators in metallic contact YES.

Main Switch Boards, where placed ON ENGINE CASING ADJACENT TO GENERATOR.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with a fuse on each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard _____

Switchboards, are they placed in accessible positions, free from inflammable gases and acid fumes YES

are they protected from mechanical injury and damage from water, steam or oil YES., if situated near unprotected

woodwork or other combustible material, state distance of same horizontally from or vertically above the switchboards _____ and _____

are they constructed wholly of durable, incombustible non-absorbent materials YES., is all insulation of high dielectric strength and of

permanently high insulation resistance YES., if semi-insulating material is used, are all conducting parts connected to one pole

insulated from the slab with mica or micanite and the slab similarly insulated from its framework YES., and is the

frame effectively earthed YES. Are the following fittings as per Rule, viz.:— spacing or shielding of live parts

YES., accessibility of all parts YES, absence of fuses on back of board YES., proportion of omnibus

bars YES., individual fuses to voltmeter, pilot or earth lamp YES., connections of switches YES

Main Switchgear, description of switchgear for each generator and each outgoing circuit, and arrangement of equalizer switches

OUTGOING CIRCUITS KNIFE SWITCHES SINGLE POLE. No main switch L- generator.

Instruments on main switchboard ONE ammeters ONE voltmeters _____ synchronising device for paralleling purposes.

Earth Testing, state what means are provided at the main switchboard for indicating the state of the insulation of the system PILOT LAMP &

VOLTMETER.

Switches, Circuit Breakers and Fusible Cut-outs, do these comply with the requirements of the Rules YES.

Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule YES.



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Insulation of Cables, state type of cables, single or twin SINGLE TWIN are the cables insulated and protected as per Tables III or IV of the Rules YES.

Fall of Pressure, state maximum between bus bars and any point of the installation under maximum load 100 VOLTS AT BUS BARS 100 VOLTS AT ANY P.

Cable Sockets and other connections, are the ends of all cables having a sectional area of 0.007 square inch and above provided with soldering sockets YES.

Paper Insulated Cables, If cables are paper covered, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound —.

Cable Runs, are the cables fixed as far as possible in accessible positions not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage YES.

Support and Protection of Cables, state how the cables are supported and protected ARMoured CABLES SUPPORTED BY METAL CLIPS.

If cables are run in wood casings, are the casings and caps secured by screws —, are the cap screws of brass —, are the cables run in separate grooves —. If armoured and lead covered cables are secured by metal clips, are the clips spaced as per Table VI —.

Refrigerated Chambers, if lights are fitted, are the cables and fittings in accordance with the special requirements —.

Joints in Cables, state if any, and how made, insulated, and protected JOINT BOXES.

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands YES.

Bushes in Beams and Non-watertight Positions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed YES state the material of which the bushes are made LEAD.

Earthing Connections, state what earthing connections are fitted and their respective sectional areas COPPER EARTHING WIRE 3/0.29.

—, are their connections made as per Rule YES.

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule —.

Emergency Supply, state position and method of control of the emergency supply and how the generator is driven —.

Navigation Lamps, are these separately wired YES, controlled by separate switch and separate fuses YES, are the fuses double pole YES, are the switches and fuses grouped in a position accessible only to the officers on watch —, has each navigation lamp an automatic indicator as per Rule —, are separate screens provided for the use of oil and electric side lights YES, are separate oil lanterns provided for the mast head lights and side lights YES.

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight YES, are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected —, are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected —, how are the cables led THROUGH BEAMS.

where are the controlling switches situated IN ENGINE ROOM.

Searchlight Lamps, No. of —, whether fixed or portable —, are their fittings as per Rule —.

Arc Lamps, other than searchlight lamps, No. of —, are their live parts insulated from the frame or case —, are their fittings as per Rule —.

Motors, are their working parts readily accessible —, are the coils self-contained and readily removable for replacement —, are the brushes, brush holders, terminals and lubricating arrangements as per Rule —, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material —, are they protected from mechanical injury and damage from water, steam or oil — are their axis of rotation fore and aft —, if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type —, if not of this type, state distance of the combustible material horizontally or vertically above the motors — and —.

Control Gear and Resistances, are the generator field and motor speed regulators, starters and controllers constructed as per Rule —.

Lightning Conductors, where lightning conductors are required, are these fitted as per Rule —.

Ships carrying Oil having a Flash Point less than 150° F. Have the special requirements of the Rules been complied with regarding switches, joint boxes, section and distribution boards, protection of cables, method of distribution, lead of cables, lights and fittings —.

If portable lamps for use in dangerous spaces are supplied, are they of a type approved by the Home Office —.

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 ...	—	THREE	100 V	30 V	—	STEAM	—	—	
AUXILIARY ...	—	—	—	—	—	—	—	—	
EMERGENCY ...	—	—	—	—	—	—	—	—	
ROTARY TRANSFORMER	—	—	—	—	—	—	—	—	

LIGHTING AND HEATING CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Conductors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
—	MAIN GENERATOR...	TWO	0.0125	7	0.48	15 AMP.	14 FT.	RUBBER * BRAID	THRO' PIPE.
—	AUXILIARY GENERATOR	—	—	—	—	—	—	—	—
—	EMERGENCY GENERATOR	—	—	—	—	—	—	—	—
—	ROTARY TRANSFORMER...	—	—	—	—	—	—	—	—
—	AUXILIARY SWITCHBOARDS	—	—	—	—	—	—	—	—
—	ENGINE ROOM	—	—	—	—	—	—	—	—
—	BOILER ROOM	1	0.012	3	0.48	—	23'	Lead covered	—
—	Reconnection	2	—	—	—	—	1-60 1-80	—	Thru piping
—	WIRELESS	—	—	—	—	—	—	—	—
—	SEARCHLIGHT	—	—	—	—	—	—	—	—
—	MASTHEAD LIGHT...	4	0.00194	3	0.29	1	250 FEET MIN.	RUBBER * BRAID	ARMOUR LEAD
—	SIDE LIGHTS...	4	0.00194	3	0.29	1	—	—	—
—	COMPASS LIGHTS	—	—	—	—	—	—	—	—
—	POOP LIGHTS	—	—	—	—	—	—	—	—
—	CARGO LIGHTS	8	0.00194	3	0.29	3	150 FT.	RUBBER * BRAID	ARMOUR LEAD
—	ARC LAMPS	—	—	—	—	—	—	—	—
—	HEATERS	—	—	—	—	—	—	—	—

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor. Sq. Ins.	COMPOSITION OF STRAND.		Total Maximum Current. Amperes.	Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
				No.	Diameter.				
—	BALLAST PUMP	—	—	—	—	—	—	—	—
—	MAIN BILGE LINE PUMPS	—	—	—	—	—	—	—	—
—	GENERAL SERVICE PUMP	—	—	—	—	—	—	—	—
—	EMERGENCY BILGE PUMP	—	—	—	—	—	—	—	—
—	SANITARY PUMP	—	—	—	—	—	—	—	—
—	CIRC. SEA WATER PUMPS	—	—	—	—	—	—	—	—
—	CIRC. FRESH WATER PUMPS	—	—	—	—	—	—	—	—
—	AIR COMPRESSOR	—	—	—	—	—	—	—	—
—	FRESH WATER PUMP	—	—	—	—	—	—	—	—
—	ENGINE TURNING GEAR	—	—	—	—	—	—	—	—
—	ENGINE REVERSING GEAR	—	—	—	—	—	—	—	—
—	LUBRICATING OIL PUMPS	—	—	—	—	—	—	—	—
—	OIL FUEL TRANSFER PUMP	—	—	—	—	—	—	—	—
—	WINDLASS	—	—	—	—	—	—	—	—
—	WINCHES, FORWARD	—	—	—	—	—	—	—	—
—	WINCHES, AFT	—	—	—	—	—	—	—	—
—	STEERING GEAR	—	—	—	—	—	—	—	—
—	WORKSHOP MOTOR	—	—	—	—	—	—	—	—
—	VENTILATING FANS	—	—	—	—	—	—	—	—

All Conductors are of annealed copper conforming to British Standard Specification No. 7.
The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.
The foregoing is a correct description.

for and on behalf of

THE HANSEN SHIPBUILDING & SHIPREPAIRING CO. LTD.

J. Phakon

Electrical Engineers.

Date

23/4/23

COMPASSES.

Distance between electric generators or motors and standard compass

Distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying $\frac{1}{2}$ Ampères feet from standard compass feet from steering compass. to light compass

A cable carrying $\frac{1}{2}$ Ampères 10 feet from standard compass 10 feet from steering compass. nose light.

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.

for and on behalf of

THE HANSEN SHIPBUILDING & SHIPREPAIRING CO. LTD.

J. Phakon

Builder's Signature.

Date

23/4/23

Is this installation a duplicate of a previous case ☒ Yes. If so, state name of vessel S.S. 4/488ASTONE. S.S. WILD ROSE.

General Remarks (State quality of workmanship, opinions as to class, &c.)

This installation of electric light has been fitted according to the Rules. The material workmanship are good. It has been tried under full load and found satisfactory.

It is submitted that
this vessel is eligible for
THE RECORD. Elec. light.

AWD.
11/7/23

Total Capacity of Generators Kilowatts

The amount of Fee

£ 5 : 00

When applied for,

June 13th 23

Travelling Expenses (if any) £

When received,

See debit book.

John W. Gwynne

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

1m. 32. Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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