

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

17 MAY 1926

Date of writing Report 5/5 1926 When handed in at Local Office 19 Port of Copenhagen
 No. in Survey held at Nakskov Date, First Survey 14/2 26. Last Survey 28/4 1926.
 Reg. Book. 37989 on the Swedish Motor vessel "ASTORIA" (Number of Visits 7)
 Tons { Gross 4453.75
 Net 2693.65
 Built at Nakskov By whom built Nakskov Skibsværft Yard No. 26 When built 1926
 Owners Dampskibsselskabet Orient Port belonging to Copenhagen
 Electric Light Installation fitted by Nakskov Skibsværft Contract No. 1926

System of Distribution 2-Conductor insulated system
 Pressure of supply for Lighting 110 volts, Heating 220 volts, Power 220 volts.

Direct or Alternating Current, Lighting direct Power direct

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 rating 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 yes, is an adjustable regulating resistance fitted in series with each shunt field yes

Are all terminals accessible, clearly marked, and furnished with sockets yes, are they so spaced or shielded that they cannot be accidentally earthed, short circuited, or touched yes

Are the lubricating arrangements of the generators as per Rule yes

Position of Generators placed in the port side of the engine room, floor level

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 yes

and ✓, are the generators protected from mechanical injury and damage from water, steam, or oil yes

are their axes of rotation fore and aft yes

Earthing, are the bed-plates 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 a platform aft in the engine room

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, non-ignitable non-absorbent materials yes, is all insulation of high dielectric strength and of permanently high insulation resistance yes (switchboard of marble), if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micaite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework yes

and is the frame effectively earthed yes, Are the fittings as per Rule regarding: — spacing or shielding of live parts yes

yes, accessibility of all parts yes, absence of fuses on back of board yes, proportion of omnibus bars yes

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 for each generator:

a 26 pole linked circuit breaker as per sect. 3 para. 3 A (f); for each outgoing circuit: a single pole linked switch and a fuse on each pole.

Instruments on main switchboard 6 ammeters 4 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 2 sets of earth lamps fitted on main switchboard

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

Joint Boxes Section and Distribution Boards, is the construction, protection, insulation, material, and position of these as per rule yes



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MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor Sq. Ins. $\frac{1}{4}$ in. 1/16	COMPOSITION OF STRAND.		Total Maximum Current in c/s.	Approximate Length. (Lead in + Return.) Feet. $\frac{1}{2}$	Insulated with	HOW PROTECTED.
				No.	Diameter.				
	BALLAST PUMP <i>and Sanitary</i> ...	1	35 ✓	19	1.53	60	32	rubber	lead
	MAIN BILGE LINE PUMPS ...	1	16 ✓	7	1.70	36	30	"	covered
	GENERAL SERVICE PUMP								and
	EMERGENCY BILGE PUMP ...								steel wire
	SANITARY PUMP ...								armoured
	LUBRICATING OIL AND CIRC. SEA WATER PUMPS } 2	70 ✓	19	2.16	95	18	"		
	FRESH WATER PUMPS } 1	6 ✓	7	1.05	18	26.	"		
	AIR COMPRESSOR ...								
	FRESH WATER PUMP ...								
	ENGINE TURNING GEAR ...	2	2.5 ✓	7	0.67	8	34	"	"
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...	1	16 ✓	7	1.70	38.5	24	"	"
	OIL FUEL TRANSFER PUMP	1	2 x 70 ✓	2 x 19	2.16	250	210	"	"
	WINDLASS ...	4	120 ✓	34	2.03	175	180	"	"
	WINCHES, FORWARD ...	4	150 ✓	37	2.27	200	130	"	"
	WINCHES, AFT ...								
	STEERING GEAR—								
	a) MOTOR GENERATOR...	1	35 ✓	19	1.53	75	200	"	"
	(b) MAIN MOTOR ...	1	2.5 ✓	7	0.67	10	40	"	"
	WORKSHOP MOTOR ...								
	VENTILATING FANS ...								
	WINCHES MIDSHIP ...	2	70 ✓	19	2.16	120	70	"	"

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.

J.P. Amy Electrical Engineers. Date _____

COMPASSES.

Distance between electric generators or motors and standard compass 11 m.

Distance between electric generators or motors and steering compass 11 m.

The nearest cables to the compasses are as follows:—

A cable carrying 0.3 Amperes 7" feet from standard compass 7" feet from steering compass.

A cable carrying 0.5 Amperes 14 feet from standard compass 6 feet from steering compass.

A cable carrying — Amperes — 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 0 degrees on *any* course in the case of the standard compass, and 0 degrees on *any* course in the case of the steering compass.

J.P. Amy Builder's Signature. Date _____

Is this installation a duplicate of a previous case *No* If so state name of vessel _____

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

The Electric Light and Power Installation as above described has been fitted in accordance with the Rules. The approved plan and the requirements contained in the Surveyor's letter of 9/11/25.

The material used is of generally good description throughout, and the workmanship is good.

On completion the whole installation was tested under full power working conditions and found to work satisfactorily.

Recommends the vessel to have notation of "ELECTRIC LIGHT" in the Reg. Book.

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

J.P. Amy
17/5/26

Total Capacity of Generators 132 Kilowatts.

1/2 = £ 18.57. The amount of Fee ... £ 614.67: When applied for, 19.

Travelling Expenses (if any) £ : : When received, 9/6/26

A. J. P. Amy Surveyor to Lloyd's Register of Shipping.

Committee's Minute

MAY 21 1926

Assigned

Elec. Light



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