

No. 7168.

PORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

1 JAN 1926

Report 2nd January 1926 When handed in at Local Office

19 Port of Copenhagen

d at the outer

Date, First Survey 3rd September Last Survey 19th December 1925

(Number of Visits 25)

Thickness

the Steel Twin Screw Motor Vessel "DANMARK"

Tons { Gross 8390.97
Net 5342.41

Copenhagen

By whom built Akt. Burmeister & Wain's Maskin og Skibsbyggeri

Yard No. 337

When built 1925

No. of

Det Østasiatiske Kompagni

Port belonging to

Copenhagen

Hanged

ght Installation fitted by Akt. Burmeister & Wain's Maskin og Skibsbyggeri. Contract No. 337 When fitted 1925.

Distribution

Two-wire with direct current, insulated system.

supply for Lighting

110

volts, Heating

volts, Power

220

volts.

Alternating Current, Lighting

Direct current.

Power

Direct current.

Correct desc

g current system, state frequency of periods per second

WRAA

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

yes.

do they comply with the requirements regarding overload

yes

are they compound wound

yes.

compounded 5 per cent.

no

if not compound wound state distance between each generator

than one generator is fitted are they arranged to run in parallel

yes

is an adjustable regulating resistance fitted in

each shunt field

yes

terminals accessible and clearly marked

yes

are they so spaced or shielded that they cannot be accidentally earthed,

excited

yes

Are the lubricating arrangements of the generators as per Rule

yes.

of Generators

On port side of the machinery space.

lation in way of the generators satisfactory

yes

are they clear of all inflammable material

yes

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

near unprotected woodwork
combustible material.

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

yes

axis of rotation fore and aft

yes

are the bedplates and frames of the generating plant efficiently earthed

yes

are the prime movers and

ective generators in metallic contact

yes

itch Boards, where placed

In the machinery space.

If the generators and main switchboard are not placed in the same compartment, is each generator provided with

each insulated pole as near as possible to the terminals of the generator, additional to that provided on the main switchboard

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

yes

protected from mechanical injury and damage from water, steam or oil

yes

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

Not situated near unprotected woodwork
or other combustible material

constructed wholly of durable, incombustible non-absorbent materials

yes

is all insulation of high dielectric strength and of

ally high insulation resistance

yes

if semi-insulating material is used, are all conducting parts connected to one pole

from the slab with mica or micante and the slab similarly insulated from its framework

yes

ectively 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

yes, individual fuses to voltmeter, pilot or earth lamp

yes

connections of switches

yes

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

For each generator

double-pole circuit breaker with overload and reversed current trip, and a single-pole equalizer switch as required

the Rules. — For each outgoing circuit a double-pole linked switch and a double-pole fuse as per Rules.

ments on main switchboard

6

ammeters

4

volts

✓

synchronising device for paralleling purposes.

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

vided with an Ohm-scale and the switchboard is provided with two sets of earth testing lamps.

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

yes

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

yes

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Lloyd's Register
162-00 531712

PARTICULARS OF GENERATING PLANT

LIGHTING ~~AND HEATING~~ CONDUCTORSMOTOR CONDUCTORS

MOTOR CONDUCTORS.									
Ref. No.	DESCRIPTION.	No. of Motors.	Effective Area of each Conductor Sq. <small>inches</small>	COMPOSITION OF STRAND.	Total Maximum Current, Amperes.	Approximate Length. (Lead and Return.) <small>inches</small>	Insulated with	HOW PROTECTED.	
				No. <small>of</small> Diameter.					
	BALLAST PUMP	1	25 ✓	7	2.13	56.5	abt. 60 "	Pneumatized rubber	Lead covered and wire armoured.
	MAIN BILGE LINE PUMPS ...	1	16 ✓	7	1.70	45.5	" 60 "	" "	" " "
	GENERAL SERVICE PUMP								
	EMERGENCY BILGE PUMP ...								
	SANITARY PUMP <small>SALT WATER.</small>	1	1.5 ✓	1	1.38	abt. 6	" 8 "	" "	" " "
	CIRC. SEA WATER PUMPS ...	3	25 ✓	7	2.13	" 56.5	" 25 "	" "	" " "
	CIRC. FRESH WATER PUMPS								
	AIR COMPRESSOR								
	FRESH WATER PUMP								
	ENGINE TURNING GEAR ...	2	6 ✓	7	1.05	" 24	" 18 "	" "	" " "
	ENGINE REVERSING GEAR ...								
	LUBRICATING OIL PUMPS ...	2	50 ✓	19	1.83	" 96	" 15 "	" "	" " "
	OIL FUEL TRANSFER PUMP	1	25 ✓	7	2.13	" 56.5	" 30 "	" "	" " "
	WINCHES - 4 WINCHES FORWARD	6	185 ✓	37	2.52	" 210	" 190 "	" "	" " "
	AND PUMP IN THE FOREPEAK	4	185 ✓	37	2.52	" 225	" 114 "	" "	" " "
	WINCHES, FORWARD								
	WINCHES, AFT	5	95 ✓	19	2.52	" 144	" 123 "	" "	" " "
	STEERING GEAR	1	50 ✓	19	1.83	" 96	" 196 "	" "	" " "
	WORKSHOP MOTOR	2	2.5 ✓	7	0.67	" 8	" 19 "	" "	" " "
	VENTILATING FANS	2	1.5 ✓	1	1.38	" 0.5	" 6 "	" "	" " "
	WINCHES AMIDSHIPS	4	120 ✓	37	2.03	" 170	" 38 "	" "	" " "
	MOTOR IN GALLEY.	1	1.5 ✓	1	1.38	" 1.7	" 8 "	" "	" " "
	SOUNDING MACHINE	1	10 ✓	7	1.35	" 15	" 12 "	" "	" " "
	OIL SEPARATORS	3	2.5 ✓	7	0.67	" 8.4	" 8 "	" "	" " "
	CO ₂ COMPRESSOR	1	10 ✓	7	1.35	" 28	" 8 "	" "	" " "
	BRINE PUMP	1	2.5 ✓	7	0.67	" 8	" 10 "	" "	" " "

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.

AKTIESELSKABET
BURMEISTER & WAINSKIN OG SKIBSBYGGERI

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass *about 40 feet.*

Distance between electric generators or motors and steering compass *about 32 feet.*

The nearest cables to the compasses are as follows:—

A cable carrying *abt. 8* Ampères *abt. 6* feet from standard compass *abt 9* feet from steering compass.

A cable carrying "*0.2* Ampères *to the lamp in feet from* standard compass *and in the* 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. *yes.*

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 *0* degrees on *all* course in the case of the standard compass, and *0* degrees on *all* course in the case of the steering compass.

AKTIESELSKABET
BURMEISTER & WAINSKIN OG SKIBSBYGGERI

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 whole electric lighting and power installation as above described has been fitted in accordance with the Rules, the approved plan and the requirements contained in the London letter E dated the 9th and 21st April 1925.

The material used and the workmanship are of good description in every respect and the whole electric installation has been tested under full power working condition and found satisfactory.

Recommend the vessel to have notation of "Electric light" in the Register Book.

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

Total Capacity of Generators *195* Kilowatts

The amount of Fee *is noted on the Machinery Report 6th Jan. 1926.*
When applied for, *6th Jan. 1926.*
When received, *19*
Travelling Expenses (if any) £ *✓* : *✓* :

Ad. Inspect. S. Laursen
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

RI. 22 JAN 1926

Assigned

1 in 9, 21.—Transfer.
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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