

# REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 30 JAN 1931

Date of writing Report 27th Jan. 1931 When handed in at Local Office 27th Jan. 1931 Port of HELSINGBORG.

No. in Survey held at HELSINGBORG.

Date, First Survey 9th Dec. 1930 Last Survey 20th Jan. 1931

Reg. Book.

(Number of Visits 19)

Suppl. 91182 on the Single Screw Steel Steamer "KALMARSSUND" TX

Tons { Gross 1154.16  
Net 612.50

Built at HELSINGBORG.

By whom built Höggs Yrvis &amp; Söcklings AB

When built 1931.

Owners Ångbåts AB KALMARSSUND

Port belonging to KALMAR.

Electric Light Installation fitted by Messrs Hallberg &amp; Co. Hbg

Contract No. ✓

When fitted 1931.

System of Distribution Direct current Dynamo. ✓

Pressure of supply for Lighting 115

volts, Heating ✓

volts, Power ✓

volts.

Direct or Alternating Current, Lighting

Direct current ✓

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 Yes

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 platform, stbd side in the 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 ✓

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 stbd side in the Engine Room. Material: marble.

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 60 mm<sup>2</sup>, individual fuses to voltmeter, pilot or earth lamp Yes, connections of switches as per Rule.

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

main switch, main fuse, volt- and Amperemeter and for each outgoing

circuit double pole switch &amp; double pole fuse.

Instruments on main switchboard 1 ammeters 1 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 lamps fitted

on main switchboard as earth testing.

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

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

**Aktieforsel Hallberg & Co**

Electrical Engineers.

Date 26/1/1931

#### COMPASSES.

Distance between electric generators or motors and standard compass abt. 65 feet

Distance between electric generators or motors and steering compass abt 60 feet

The nearest cables to the compasses are as follows:—

A cable carrying 30 Ampères 5 feet from standard compass                      feet from steering compass.

A cable carrying 1.5 Ampères 8 feet from standard compass                      feet from steering compass.

A cable carrying 0.15 Ampères light to ~~feet from~~ standard compass light to ~~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 ✓ degrees on ✓ course in the case of the standard compass, and ✓ degrees on ✓ course in the case of the steering compass.

**Helsingborgs Varfs- & Svetsnings Aktiebolag**

Builder's Signature.

Date 26.1.1931

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. This electric lighting installation has been fitted onboard this vessel under my inspection, has been tested and found satisfactory.

All the Rule requirements have been complied with.

Approved plan forwarded in separate cover.

The electric generator manufactured by Messrs AB Elektromekanik at Helsingborg. N° 43437. Type LP9. Rev. 700. 5.5 kw. 115 Volt. 48 Amp.

The steam engine driving the generator, size 115x80, manufactured by Messrs Helsingborgs Varus- & Svetsnings AB at Helsingborg.

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

Elec Light  
25/1/31

Total Capacity of Generator 5.5 Kilowatts

The amount of Fee ... N. 100.10 { When applied for, 27-1-1931

Travelling Expenses (if any) £ ✓ : ✓ : 5/2/1931 { When received, 5/2/1931

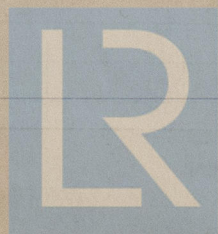
L. Petersen

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

Elec. Lt.



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