

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

10 JAN 1929

Date of writing Report 31/12 1928 When handed in at Local Office

Port of Copenhagen

No. in Survey held at Nakskov

Date, First Survey 9/10

Last Survey 23/12

1928

Reg. Book.

(Number of Visits 10)

92048 on the Steamer vessel "SIR KARL KNUDSEN"

Tons { Gross 7747.17
Net 4581.48

Built at Nakskov

By whom built Nakskov Skibsværft Yard No. 33

When built 1928

Owners A. F. Threlkess & Co. 9/10, Port belonging to Oslo.

Electric Light Installation fitted by Nakskov Skibsværft. Contract No. When fitted 1928.

System of Distribution 2 wire, 2 conductors, 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

Generators, do they comply with the requirements regarding rating

are they over compounded 5 per cent.

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

series with each shunt field

Are all terminals accessible, clearly marked, and furnished with sockets

short circuited, or touched

Position of Generators placed in the motor room, one in each side.

is the ventilation in way of the generators satisfactory

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 axes of rotation fore and aft

Earthing, are the bedplates and frames of the generating plant efficiently earthed

their respective generators in metallic contact

Main Switch Boards, where placed on a platform in the forward end of the motor 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

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

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

are they constructed wholly of durable, non-ignitable non-absorbent materials

permanently high insulation resistance

with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework

and is the frame effectively earthed

Are the fittings as per Rule regarding: — spacing or shielding of live parts

accessibility of all parts

absence of fuses on back of board

proportion of omnibus bars

individual fuses to voltmeter, pilot or earth lamp

connections of switches

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

pole circuit breaker with overload & reverse current trip & equalizer switch as per Section 3 par. 3A (f);

for each outgoing circuit: 1 266 pole linked switch and a fuse on each pole.

Instruments on main switchboard 5 ammeters 3 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 set of earth lamps, 2 voltmeters provided with a scale.

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

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



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W1342-0058 1/2

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
NAKSKOV SKIBSVÆRFT
J. M. Hansen

Electrical Engineers.

Date

COMPASSES.

Distance between electric generators or motors and standard compass 4.5 m.

Distance between electric generators or motors and steering compass 7 m.

The nearest cables to the compasses are as follows:—

A cable carrying 0.13 Amperes 9" feet from standard compass 9' feet from steering compass.

A cable carrying 1 Amperes 12 feet from standard compass 5 feet from steering compass.

A cable carrying 5 Amperes 7 feet from standard compass 12 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.

AKTIESELSKABET
NAKSKOV SKIBSVÆRFT
J. M. Hansen

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 carried out under special survey and in accordance with the Society's Rules, the approved plan and the requirements contained in the Secretary's letter of dated 7/6 1928.

The material used for the installation is of good quality and the workmanship of generally good description throughout.

On completion the whole installation was tested under full power working condition and found satisfactory.

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

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

Ellec Light

11/1/29

Total Capacity of Generators 132 Kilowatts.

The amount of Fee ... £ 602.42

When applied for,

18.1.1929

When received,

5.2.1929

Travelling Expenses (if any) £

Ch. Hilff
Surveyor to Lloyd's Register of Shipping.

Committee's Minute

TUE. 15 JAN 1929 FRI. 22 FEB 1929

Assigned

Ellec Light



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