

REPORT ON ELECTRIC FITTINGS.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report 5-10-1929 When handed in at Local Office 7-10-1929 Port of Nicolaieff U.S.S.R.

No. in Survey held at Nicolaieff Date, First Survey 27.7.28 Last Survey 27.9.1929
Reg. Book. (Number of Visits C.A.)on the Motor Vessel "EMBA NEFT" Tons { Gross 7791
Net 5335

Built at Nicolaieff By whom built Nicolaieff Yard. "Andre Marti" Yard No. 185 When built 1929

Owners Kaptha Syndicate U.S.S.R. Port belonging to Khorovisisk U.S.S.R.

Electric Light Installation fitted by State Electric Trust Contract No. ✓ When fitted 1929

System of Distribution

Double Wire

Pressure of supply for Lighting 110 volts, Heating ✓ volts, Power 110 volts.

Direct or Alternating Current, Lighting Direct Current Power Direct Current

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 In Auxiliary Engine-room.

is the ventilation in way of the generators satisfactory ✓ Yes, are they clear of all inflammable material ✓ None

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 axes 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 In special room off Auxiliary engine-room with extended spindles into Aux. Eng. 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

if semi-insulating material is used, are all conducting parts insulated from the slab with mica or micanite or other non-hygroscopic insulating material, and the slab similarly insulated from its framework ✓ Micanite used on fittings.

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

✓ Yes, accessibility of all parts ✓ Yes, absence of fuses on back of board ✓ None, proportion of omnibus bars ✓ Yes

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

generators and the 38 kW generator has 2 single-pole fuses + 2 single-pole circuit breakers with overload & reverse trips. Both the 80 kW sets are connected to the main pair of bars in parallel. ✓ the 38 kW set to another pair of bus bars for connecting in parallel and generator has 2 single pole fuses + double pole circuit-breaker + double pole switch. ✓ Instruments on main switchboard 12 ammeters 2 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. ✓ Ammeter

for pressure 115 Volts

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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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.

H. M. Kobasek

Electrical Engineers.

Date *19th August 1929*

COMPASSES.

Distance between electric generators or motors and standard compass *27'-6"*

Distance between electric generators or motors and steering compass *34'-0"*

The nearest cables to the compasses are as follows:—

A cable carrying *4* Ampères *10* feet from standard compass *6* feet from steering compass.

A cable carrying *0.5* Ampères *Fixed to body of* ~~feet from~~ standard compass *and* ~~feet from~~ steering compass. *for lighting*

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 *Under normal working conditions*

Has the effect of switching on and off circuits, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted *no*

The maximum deviation due to electric currents was found to be *-1.25* degrees on *S E and S W* course in the case of the standard compass, and *-2 + 2* degrees on *S W & N W* course in the case of the steering compass.

M. Kobasek

Builder's Signature.

Date *19th Aug 1929*

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 installation has been fitted on board under Special Survey, tested under working conditions and found satisfactory. The workmanship was found to be good & sound. Constant attendance was given on board during the installing of the plant.

B.H.

Total Capacity of Generators *202* Kilowatts.

The amount of Fee £	:	:	When applied for,
			19.....
Travelling Expenses (if any) £	:	:	When received,
			19.....

J. J. Barr

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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