

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

MAY 13 1940

Date of writing Report 6th April 40 When handed in at Local Office 22nd April 1940 Port of Middeburgh

No. in Survey held at Middeburgh Date, First Survey 11th Jan Last Survey 5th Apr 1940
 Reg. Book Suppl. (Number of Visits 8)

40321 on the S.S. "NORMAN PRINCE" Tons { Gross 1913.27
 Net 919.06

Built at Middeburgh By whom built Smith's Dock Co., Ltd. Yard No. 1066 When built 1940

Owners Prince Line, Ltd. Port belonging to London

Electrical Installation fitted by Richard Pickering & Sons, Ltd. Contract No. 1066 When fitted 1940

Is vessel fitted for carrying Petroleum in bulk No Is vessel equipped with D.F. No E.S.D. No Gy.C. No Sub.Sig. No

Have plans been submitted and approved No System of Distribution Single wire Voltage of supply for Lighting 110

Heating No Power 110 Direct or Alternating Current, Lighting No Power No If Alternating Current state frequency No Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off No Are turbine emergency governors fitted with a trip switch as per Rule No Generators, are they compound wound No, are they level compounded under working conditions No, if not compound wound state distance between generators No and from switchboard No Where more than one generator is fitted are they arranged to run in parallel No, are shunt field regulators provided No Is the compound winding connected to the negative or positive pole Positive Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing No Have certificates of test for machines under 100 kw. been supplied No and the results found as per rule No Are the lubricating arrangements and the construction of the generators as per rule No Position of Generators Engine room at stern side of is the ventilation in way of generators satisfactory No are they clear of inflammable material No, if situated near unprotected combustible material state distance from same horizontally No and vertically No, are the generators protected from mechanical injury and damage from water, steam and oil No, are the bedplates and frames earthed No and the prime movers and generators in metallic contact No Switchboards, where are main switchboards placed Engine room at stern side of after bucking run generators are they in accessible positions, free from inflammable gases and acid fumes No, are they protected from mechanical injury and damage from water, steam and oil No, if situated near unprotected combustible material state distance from same horizontally No and vertically No, what insulation material is used for the panels Slate, if of synthetic insulating material is it an Approved Type No, if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule No Is the frame effectually earthed No Is the construction as per Rule No, including accessibility of parts No, absence of fuses on the back of the board No, individual fuses to pilot and earth lamps, voltmeters, etc. No locking of screws and nuts No, labelling of apparatus and fuses No, fuses on the "dead" side of switches No Description of Main Switchgear for each generator and arrangement of equaliser switches Double pole double throw knife switch, and double pole fuses for each generator. and for each outgoing circuit Double pole knife switch and double pole fuses

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule No Instruments on main switchboard 2w ammeters 2w voltmeters No synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the equaliser connection No Earth Testing, state means provided 2 lamps connected to 2. through switches

PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	1	12	110	109	850	Single cylinders		
						steam engine		
	1	4.5	110	45.5	1000	Single cylinders	Fuel oil	above 150°F.
EMERGENCY								
ROTARY TRANSFORMER								

[illegible]

The Electrical Equipment is installed in accordance with the approved plans and the requirements of the Rules.
All Insulated Conductors are guaranteed to have been tested at the maker's works as specified in the Rules.
The foregoing is a correct description.

RICHARD PICKERSGILL & SONS, LTD.

A. H. Spencer

SECRETARY

Electrical Engineers.

Date 16 APR 1940

COMPASSES.

Minimum distance between electric generators or motors and standard compass. *40 feet*

Minimum distance between electric generators or motors and steering compass. *40 feet*

The nearest cables to the compasses are as follows:—

A cable carrying *1/2* Ampères *on the* feet from standard compass *7* feet from steering compass.

A cable carrying *1/2* Ampères *7* feet from standard compass *on the* feet from steering compass.

A cable carrying *1/2* Ampères *7* feet from standard compass *on the* 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 *1/2* degrees on *any* course in the case of the

standard compass, and *1/2* degrees on *any* course in the case of the steering compass.

J. H. Spencer Builder's Signature.

Date 18th April 1940

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

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.) *The electrical*

equipment of this vessel has been installed under special
arrangements. The materials used and the workmanship are
first class. On completion the equipment was run under
working conditions, the governing, regulation and compounding
of the generating sets were tested, the insulation
resistance of all circuits was measured and the spare
gear was examined. This equipment is in my opinion
suitable for a classed vessel.

Noted

L.H.

15/5/40

Total Capacity of Generators *16 17* Kilowatts.

The amount of Fee ... £ *15 10* : When applied for, *10 5* : 19 *40*

Travelling Expenses (if any) £ : : When received, *3 7* : 19 *40*

Spencer

Surveyor to Lloyd's Register of Shipping.

FRI 17 MAY 1940

Committee's Minute

Assigned

See Mdb 56 16835

2nd 1038.—Transfer. (MADE IN ENGLAND.)
(The Surveyors are requested not to write on or below the space for Committee's Minute.)



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