

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Date of writing Report.....19..... When handed in at Local Office.....25/6/40.....19..... Port of.....Newcastle-on-Tyne..... Received at London Office.....24/6/40.....

No. in Survey held at.....Newcastle (Wallsend)..... Date, First Survey.....4-1-40..... Last Survey.....13-6-1940.....
Reg. Book. (Number of Visits.....24.....)

..... on the.....PORT NAPIER..... Tons {Gross.....9847.....
Net.....5906.....

Built at.....Newcastle (Wallsend)..... By whom built.....Swan Hunter & Wigham Richardson..... Port No.....1569..... When built.....1940.....

Owners.....PORT LINE LTD...... Port belonging to.....

Electrical Installation fitted by.....Swan Hunter & Wigham Richardson..... Contract No.....1569..... When fitted.....1940.....

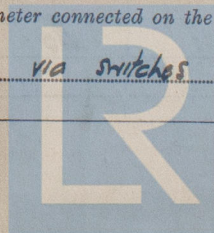
Is vessel fitted for carrying Petroleum in bulk.....No..... Is vessel equipped with D.F.....Yes..... E.S.D.....Yes..... Gy.C.....Yes..... Sub.Sig.....No.....

Have plans been submitted and approved.....Yes..... System of Distribution.....Two wire..... Voltage of supply for Lighting.....220.....

Heating.....220..... Power.....220..... Direct or Alternating Current, Lighting.....Direct..... Power.....Direct..... If Alternating Current state frequency.....—..... Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off.....Yes..... Are turbine emergency governors fitted with a trip switch as per Rule.....—..... Generators, are they compound wound.....Yes....., are they level compounded under working conditions.....Yes....., if not compound wound state distance between generators.....—..... and from switchboard.....—..... Where more than one generator is fitted are they arranged to run in parallel.....Yes....., are shunt field regulators provided.....Yes..... 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.....Yes..... Have certificates of test for machines under 100 kw. been supplied.....Yes..... and the results found as per rule.....Yes..... Are the lubricating arrangements and the construction of the generators as per rule.....Yes..... Position of Generators.....Engine room, port and starboard....., is the ventilation in way of generators satisfactory.....Yes..... are they clear of inflammable material.....Yes....., if situated near unprotected combustible material state distance from same horizontally.....—..... and vertically.....—....., are the generators protected from mechanical injury and damage from water, steam and oil.....Yes....., are the bedplates and frames earthed.....Yes..... and the prime movers and generators in metallic contact.....Yes..... Switchboards, where are main switchboards placed.....Switchboard compartment aft of engine room..... are they in accessible positions, free from inflammable gases and acid fumes.....Yes....., are they protected from mechanical injury and damage from water, steam and oil.....Yes....., if situated near unprotected combustible material state distance from same horizontally.....—..... and vertically.....—....., what insulation material is used for the panels.....Ebony Sindanyo....., if of synthetic insulating material is it an Approved Type.....Yes....., if of semi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule.....—..... Is the frame effectually earthed.....Yes..... Is the construction as per Rule.....Yes....., including accessibility of parts.....Yes....., absence of fuses on the back of the board.....Yes....., individual fuses to pilot and earth lamps, voltmeters, etc.,.....Yes..... locking of screws and nuts.....Yes....., labelling of apparatus and fuses.....Yes....., fuses on the "dead" side of switches.....Yes..... Description of Main Switchgear for each generator and arrangement of equaliser switches.....Double pole circuit breaker with equalizer switch, with overload and reverse current trips and time delays...... and for each outgoing circuit.....Double pole circuit breaker or double pole quick break knife switches and double pole fuses...... Are compartments containing switchboards composed of fire-resisting material or lined as per Rule.....Yes..... Instruments on main switchboard.....3..... ammeters.....3..... voltmeters.....—..... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the equaliser connection.....Yes..... Earth Testing, state means provided.....Earth lamps coupled to earth via switches & fuses......

W71-0053(1/2)



PARTICULARS OF GENERATING PLANT.							
DESCRIPTION OF GENERATOR.	No. of	RATED AT			DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.		Revs. per Min.	Fuel Used.
MAIN	3	275	220	1705	350	Diesel	
EMERGENCY ...	1	40	220	182	700	Diesel	
ROTARY TRANSFORMER							

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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.

For
SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.

Electrical Engineers.

Date 18th June 1940

COMPASSES.

Minimum distance between electric generators ~~or motors~~ and standard compass 110'

Minimum distance between electric generators ~~or motors~~ and steering compass 100'

The nearest cables to the compasses are as follows:—

A cable carrying .14 Ampères ^{inside} feet from standard compass — feet from steering compass.

A cable carrying .14 Ampères — feet from standard compass ^{inside} 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 Yes

The maximum deviation due to electric currents was found to be Nil degrees on every course in the case of the standard compass, and Nil degrees on every course in the case of the steering compass.

Builder's Signature.

Date June 18th 1940

Wm Buckie.

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 was installed under special survey. The workmanship and materials used are good. On conclusion, the governing, regulation, and compounding of the generators were tested. The operation of the protective devices of the circuit breakers adjusted. The insulation resistance of each circuit measured and found satisfactory. In my opinion, the electrical installation is suitable for a diesel vessel.

Total Capacity of Generators 1165 Kilowatts.

The amount of Fee ... £ 74 : 2 : 6

When applied for 25 JUN 1940

Travelling Expenses (if any) £ 10 : 6 : 8

When received.

Committee's Minute

Assigned

See Note 26 98606

Surveyor to Lloyd's Register of Shipping.

W. L. Brown