

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

28 JUL 1945

Date of writing Report.....19..... When handed in at Local Office.....25/7/45..... Port of.....NEWCASTLE-ON-TYNE.....

No. in Survey held at.....NEWCASTLE-ON-TYNE..... Date, First Survey.....(1945) 4th. 18..... Last Survey.....26/6/1945.....
Reg. Book. (Number of Visits. f.f.....)on the "REGENT HAWK" Tons { Gross 8169
Net 4644

Built at WALLSEND-ON-TYNE. By whom built SWAN HUNTER & W. R. LTD. Yard No. 1701 When built 1945.

Owners TRINIDAD LEASEHOLDS LTD. Port belonging to LONDON

Electrical Installation fitted by SWAN HUNTER & W. R. LTD. Contract No. 1701 When fitted 1945.

Is vessel fitted for carrying Petroleum in bulk YES 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 DOUBLE WIRE. Voltage of supply for Lighting 110

Heating - Power 110 Direct or Alternating Current, Lighting DC. Power DC. If Alternating Current state periodicity - Prime Movers,

has the governing been tested and found as per Rule when full 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 No, are shunt field regulators provided YES Is the compound winding connected to the negative or positive pole

NEGATIVE. Have machines over 100 kw. been inspected by the Surveyors during manufacture and testing - 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 AFT END.

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 ENGINE ROOM AFT END, AND IN MIDSHIP

ACCOMMODATION.

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 SINDANYO, if of synthetic insulating material is it an Approved Type - 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 SINGLE

THROW SWITCH & FUSES FOR DIESEL GENERATOR. D.P. DOUBLE THROW SWITCH & FUSES

FOR STEAM GENERATOR OR SHORE SUPPLY.

and for each outgoing circuit DOUBLE POLE DOUBLE THROW SWITCHES & D.P. FUSES.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 2

ammeters 2 voltmeters - synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection - Earth Testing, state means provided EARTH LAMPS COUPLED TO EARTH THROUGH SWITCHES & FUSES.

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an approved type YES, are all fuses labelled as

per Rule YES. If circuit breakers are provided for the generators, at what overload current did they open when tested - are the reversed current

protection devices connected on the pole opposite to the equaliser connection - have they been tested under working conditions, and at what current

did they operate - Joint Boxes, Section Boards and Distribution Boards, is the construction and position as per Rule YES.

Cables, are they insulated and protected as per the appropriate Tables of the Rules YES, if otherwise than as per Rule are they of an approved type -

state maximum fall of pressure between bus bars and any point under maximum load 4.5 VOLTS are the ends of all cables having a sectional area of 0.04

square inch and above provided with soldering sockets YES Are paper insulated and varnished cambric insulated cables sealed at the ends YES.

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Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof. YES Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present. YES if so, how are they protected. "WIDAN"

FLAMEPROOF FITTINGS IN BRIDGE STORES SPACES.

and where are the controlling switches fitted. IN MIDSHIP SWITCHBOARD ROOM. are all fittings suitably ventilated. YES

are all fittings and accessories constructed and installed as per Rule. YES Searchlight Lamps, No. of -, whether fixed or portable -

-, are their fittings as per Rule. - Heating and Cooking, is the general construction as per Rule. -

are the frames effectually earthed. -, are heaters in the accommodation of the convection type. - Motors, are all motors constructed and installed as per Rule. YES and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water, steam and oil. YES, if situated near unprotected combustible material state minimum distance from same horizontally. - and vertically. - Are motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment. -

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing. - Have certificates of test for motors under 100 BHP intended for essential services been supplied and the results found as per Rule. YES Control Gear and Resistances, are they constructed and fitted as per Rule. YES Lightning Conductors, where required are they fitted as per Rule. YES Ships carrying Oil having a Flash Point less than 150° F. Have all the special requirements of the Rules for such ships been complied with. YES, are all fuses of the cartridge type. YES

are they of an approved type. YES Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such ships. YES Are the cables lead covered as per Rule. YES OR M.I.C.C. Spare Gear, if the vessel is for open sea service have spares been provided as per Rule. -, are they suitably stored in dry situations. - Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory. YES

DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Ampères.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN ...	1 ✓	30 ✓	110 ✓	272 ✓	675 ✓	STEAM ENGINE.		
	1 ✓	30 ✓	110 ✓	272 ✓	675 ✓	DIESEL ENGINE.		
EMERGENCY ...								
ROTARY TRANSFORMER								

MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
BOAT WINDMIDSHIP PORT.	1	2 3/4	1	7/044	18/32	42 ✓	160	V.C.	L.C.
" " " STBD.	1	2 3/4	1	7/044	18/32	42 ✓	140	"	"
" " AFT PORT.	1	2 3/4	1	7/044	18/32	42 ✓	210	"	"
" " " STBD.	1	2 3/4	1	7/044	18/32	42 ✓	150	"	"
THERMOTANK UNIT MIDSHIP.	1	4	1	7/044	33	42 ✓	140	"	"
" " AFT.	1	4	1	7/044	33	42 ✓	65	"	"
" " " "	1	3	1	3/029	5	5 ✓	120	"	"
GALLEY RANGE COMPRESSOR.	1	1/2	1	3/029	2.5	5 ✓	110	"	"
GALLEY EXHAUST FAN.	1	55WATTS	1	3/029	.5	5 ✓	105	"	"
BILGE PUMP.	1	3/2	1	.0145 □"	30	57 ✓	180	M.I.	C.C.
WORKSHOP MOTOR.	1	5	1	.0145 □"	42	57 ✓	150	"	"

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 23rd July 1945

COMPASSES.

Minimum distance between electric generators or motors and standard compass 23 FEET.

Minimum distance between electric generators or motors and steering compass 20 "

The nearest cables to the compasses are as follows:—

A cable carrying .09 Ampères INSIDE feet from standard compass 8 feet from steering compass.

A cable carrying .09 Ampères 8 feet from standard compass INSIDE feet from steering compass.

A cable carrying 1.4 Ampères 12 feet from standard compass 8 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.

For SWAN, HUNTER, & WIGHAM RICHARDSON, LTD.

Builder's Signature.

Date 23.7.45.

Is this installation a duplicate of a previous case — If so, state name of vessel —

Plans. Are approved plans forwarded herewith — If not, state date of approval 17/6/44.

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith YES.

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 in conformity with the Society's Rules and Regulations, and the arrangements are in accordance with, or equivalent to those shown on the approved plans.

Materials used are of good quality, and the workmanship is satisfactory.

On completion, the insulation resistance of all circuits was good and the Generator operated on Load, overload, and Governor tests with satisfactory results.

The Equipment, as installed is, in my opinion, suitable for a Classed Vessel.

Total Capacity of Generators 60 Kilowatts.

The amount of Fee £ 28 : 10 : 00

When applied for,

25 JUL 1945

Travelling Expenses (if any) £ : :

When received.

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Surveyor to Lloyd's Register of Shipping.

Committee's Minute Fri. 14 SEP 1945

Assigned See F.E. machy. rpt.



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