

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office 24 JUL 1946

Date of writing Report 22ND JUNE 1946 When handed in at Local Office 7TH JUNE 1946 Port of GLASGOW
 No. in Survey held at GREENOCK Date, First Survey 14TH MARCH Last Survey 18TH JUNE 1946
 Reg. Book. 38947 on the 'NEOTHAUMA' Tons { Gross 8229
 Net 4768

Built at GLASGOW By whom built BLYTHWOOD S.B. CO. LTD Yard No. 82 When built 1946

Owners ANGLO-SAXON PETROLEUM CO. LTD Port belonging to LONDON

Electrical Installation fitted by SUNDERLAND FORGE & ENGINEERING CO. LTD Contract No. 82 When fitted 1946

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. -

Have plans been submitted and approved YES System of Distribution TWO WIRE Voltage of supply for Lighting 110

Heating - Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. 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 IN ENGINE ROOM

, 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 NEAR GENERATORS

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 INTEROHM, 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

300 AMP. D.P. SWITCH AND FUSES

and for each outgoing circuit 300 AMP. 100 AMP. OR 60 AMP. D.P. SWITCH AND 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

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 W.E. ✓

state maximum fall of pressure between bus bars and any point under maximum load 4 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

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.

FLAMEPROOF FITTINGS INSTALLED IN CENTRE-CASTLE SPACE + PUMPROOM FITTINGS COMPLY WITH RULE REQUIREMENTS

and where are the controlling switches fitted. IN ACCOMMODATION, 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. -. Control Gear and Resistances, are they constructed and fitted as per Rule. YES. Lightning Conductors, where required are they fitted as per Rule. -. 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. Spare Gear, if the vessel is for open sea service have spares been provided as per Rule. YES, are they suitably stored in dry situations. YES. 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 ✓	273 ✓	675 ✓	STEAM ENGINE	-	-
	1 ✓	30 ✓	110 ✓	273 ✓	675 ✓	I.C. ENGINE	OIL	ABOVE 150° F
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (load plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR	30	1	37/083	273	296	40	V.C.	L.C.A.
" " EQUALISER								
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible]

WIRELESS	1	7/064	35	75 ✓	144	W.C.	L.C.
NAVIGATION LIGHTS	1	7/044	21	31 ✓	132	W.C.	L.C.
LIGHTING AND HEATING				4 ✓			
ENGINE ROOM WORKSHOP BOARD	1	19/064	70	135 ✓	84	W.C.	L.C.A.
FORECASTLE L ^T S D.B.	1	7/029	51	15 ✓	420	W.E.	L.C.A.B.
BRIDGE DECK L ^T S D.B. PORT	1	7/044	18.9	31 ✓	120	W.E.	L.C.
BRIDGE DECK L ^T S D.B. STBD.	1	7/044	20	31 ✓	84	W.E.	L.C.
UPPER BRIDGE DECK L ^T S D.B.	1	7/044	11.3	31 ✓	106	W.E.	L.C.
PROP DECK L ^T S D.B. PORT	1	7/044	11.8	31 ✓	162	W.E.	L.C.
UPPER DECK AFT D.B.	1	7/044	20.5	31 ✓	180	W.E.	L.C.
AFT CARGO D.B.	1	7/044	4	31 ✓	178	W.E.	L.C.
MIDSHIP CARGO D.B.	1	7/029	6	15 ✓	20	W.E.	L.C.
ENGINE ROOM L ^T S D.B. PORT TOP	1	7/029	12	15 ✓	160	W.E.	L.C.A.
ENGINE ROOM L ^T S D.B. STBD. BOTTOM	1	7/029	9.5	15 ✓	120	W.E.	L.C.A.
SEARCHLIGHT	1	19/064	60	135 ✓	420	W.C.	L.C.A.B.
GYRO	1	7/029	10	15 ✓	72	W.E.	L.C.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
TURNING GEAR	1	10	1	19/064	80	135	130	V.C.	L.C.A.
DRILL	1	2	1	7/044	26	31	54	W.E.	L.C.A.
GRINDER	1	3	1	7/044	26	31	18	W.E.	L.C.A.
LATHE	1	2	1	7/044	177	31	54	W.E.	L.C.A.
OIL PURIFIER	1	2	1	7/044	177	31	36	W.E.	L.C.A.
OIL FUEL PUMP	1	1	1	1/066	94	10	202	W.E.	L.C.A.
BOAT WINCHES H/T	2	2	1	7/044	16	31	260	W.E.	L.C.
BOAT WINCHES F/H	2	2	1	7/044	16	31	133	W.E.	L.C.
N°1 THERMOTANK FAN	1	4	1	7/064	35	75	40	V.C.	L.C.
N°2 THERMOTANK FAN	1	4	1	7/064	35	75	254	V.C.	L.C.

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.

p.pro. THE SUNDERLAND FORGE & ENG.CO.LTD.

Electrical Engineers.

Date 24th June 1946

COMPASSES.

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

Minimum distance between electric generators or motors and steering compass.....TWENTY-FOUR FEET.

The nearest cables to the compasses are as follows:—

A cable carrying 21 Ampères 8 feet from standard compass 7 feet from steering compass.

A cable carrying 2 Ampères LED INTO feet from standard compass LED INTO 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 ANY course in the case of the

standard compass, and Nil degrees on ANY course in the case of the steering compass.

Builder's Signature Date

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

Plans. Are approved plans forwarded herewith No If not, state date of approval 5/2/46

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 fitted on board under Special Survey, tested under working conditions and found satisfactory. The materials and workmanship are good.

Notes Run 6.8.46

Total Capacity of Generators 60 Kilowatts.

The amount of Fee £ 28 : 10 :
When applied for, 18.4.46
Travelling Expenses (if any) £ : ✓ :
When received, 19.4.46

M. Gardiner
Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 23 JUL 1946

Assigned SEE ACCOMPANYING MACHINERY REPORT



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