

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office.....

Date of writing Report. 22nd March 1949 When handed in at Local Office. 22nd March 1949 Port of LEITH

No. in Survey held at BURNTISLAND Date, First Survey 29-12-48 Last Survey 18-3-1949
Reg. Book. (Number of Visits.....)

SUPPLY 91046 on the Steel Screw Motor Vessel "ADAMS BECK" Tons { Gross 173
Net 1189

Built at BURNTISLAND By whom built BURNTISLAND S.B. CO LTD Yard No. 328 When built 1949

Owners THE GAS LIGHT & COKE CO LTD Port belonging to LONDON

Electrical Installation fitted by BURNTISLAND S.B. CO LTD Contract No. 328 When fitted 1949

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

Have plans been submitted and approved YES System of Distribution DOUBLE WIRE Voltage of supply for Lighting 220

Heating 220 Power 220 Direct or Alternating Current, Lighting DIRECT Power DIRECT 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 YES, 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 ON FLAT, STARBOARD SIDE 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 "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 A D.P. CIRCUIT

BREAKER FITTED WITH OVERLOAD & REVERSE CURRENT TRIPS & A SINGLE POLE

EQUALISER SWITCH FITTED IN CENTRE CLOSING BEFORE & OPENING AFTER MAIN CIRCUIT.

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

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule YES Instruments on main switchboard 3

ammeters 2 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 2 @ 15 WATT METAL FILAMENT 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 FULL LOAD, are the reversed current

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

did they operate 10/152 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 YES/WE

state maximum fall of pressure between bus bars and any point under maximum load 42, 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

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.	Flash Point of Fuel.
MAIN ...	2	35	220	159	900	RUSTON & HORNSBY DIESEL ENGINE		
EMERGENCY ...	1	18	220	82	1000	RUSTON & HORNSBY DIESEL ENGINE		
ROTARY TRANSFORMER								

	Sq. ins. or sq. mm.	Area	Vol.	Wt.	Wt.	Wt.	Wt.	Wt.
MAIN GENERATOR	35	1	19/083	159	202	90	V.C.	LC. & ARMOURD
" " EQUALISER	-	1	19/064	-	143	45	V.C.	LC. & ARMOURD
EMERGENCY GENERATOR	18	1	19/044	82	92	120	V.C.	LC. & ARMOURD
" " EQUALISER	-	1	7/064	-	80	60	V.C.	LC. & ARMOURD

[illegible][illegible]

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
WINDLASS	1	23	1	19/064	88✓	143	500	V.C.	LC. & ARMOURD
HATCH LIFTING WINCH	1	15	1	7/064	59✓	80	240	V.C.	LC. & "
WARDING WINCH	1	15	1	7/064	59✓	80	180	V.C.	LC. & "
STEERING GEAR	1	10	1	7/064	40✓	46	180	V.I.R.	LC. & "
AIR COMPRESSOR	1	14	1	7/064	56✓	80	90	V.C.	LC. & "
BALLAST PUMP	1	34	1	19/064	128✓	143	100	V.C.	LC. & "
GENERATOR SETS CIRC ^o PUMP	1	1.5	1	3/036	7✓	10	90	V.I.R.	LC. & "
FUEL OIL TRANS ^r PUMP	1	1.5	1	3/036	7✓	10	150	V.I.R.	LC. & "
LUB OIL " "	1	7	1	7/044	28✓	31	90	V.I.R.	LC. & "
BILGE PUMP	1	9	1	7/064	36✓	46	100	V.I.R.	LC. & "
GENERAL SERVICE PUMP	1	9	1	7/064	36✓	46	120	V.I.R.	LC. & "
OIL PURIFIERS	2	.5	1	3/036	5✓	10	120	V.I.R.	LC. & "

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 THE BURNTISLAND SHIPBUILDING CO., LTD.

M. J. Douthwaite

Electrical Engineers.

Date *21-3-49*

COMPASSES.

Minimum distance between electric generators or motors and standard compass *25 FEET*

Minimum distance between electric generators or motors and steering compass *20 FEET*

The nearest cables to the compasses are as follows:—

A cable carrying *1/8* Ampères *—* feet from standard compass *7"* feet from steering compass.

A cable carrying *1/8* Ampères *7"* feet from standard compass *—* 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 *ANY* course in the case of the steering compass.

M. J. Douthwaite

Builder's Signature.

Date *21-3-49*

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

Plans. Are approved plans forwarded herewith *YES* If not, state date of approval *✓*

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 above Installation has been satisfactorily fitted on board in accordance with the Society's Rules and the approved Plans. The materials and workmanship being good. On completion the Installation was found satisfactory under full load working conditions.

Notes sent 19/4/49.

Total Capacity of Generators *88 ✓* Kilowatts.

Gas M/c *£26.12.0*
LTH M/c *£26.12.0*
The amount of Fee ... *£53 : 4 : 0*

When applied for, *25-3-19.49*

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

John C. Bunt

Surveyor to Lloyd's Register of Shipping.

for J.M. GARDINER & SELF.

Committee's Minute *FRI. 22 APR 1949*

Assigned *Su F.E. mchly. rpt*