

No. 16041

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

JUN 26 1937

Built at *Haverston Hill-on-Sea* By whom built *Furness S. B. Co. Ltd.* Yard No. *266* When built *1937*
 Owners *Anglo American Oil Co. Ltd.* Port belonging to *London*
 Electric Light Installation fitted by *Furness S. B. Co. Ltd.* Contract No. *266* When fitted *1937*
 Is the Vessel fitted for carrying Petroleum in bulk *Yes*

do these comply with the requirements of the Rules *yes* _____

current protection devices been tested under working conditions —

construction, protection, insulation, material, and position of these as per rule *Yes*

Cables: Single, twin, concentric, or multicore *single & twin* are the cables insulated and protected as per Tables IV, V, X or XI of the Rules *Yes*

If the cables are insulated otherwise than as per Rule, are they of an approved type —

any point of the installation under maximum load *3.5 volts*

area of 0.04 square inch and above provided with soldering sockets *Yes*

If conductors are paper or varnished cambric insulated, is the dielectric at the exposed ends of the conductor protected from moisture by being suitably sealed with insulating compound —

not exposed to drip or accumulation of water or oil, or to high temperature from boilers, steam pipes, uptakes or other hot objects, or to avoidable risk of mechanical damage *Yes*

Support and Protection of Cables, state how the cables are supported and protected *Main cables L.C.A.M. run in pipe with expansion joints along deck; cables in machinery spaces L.C.A.M. clipped up; L.C.B. cables clipped up in accom.*

If cables are run in wood casings, are the casings and caps secured by screws —

separate grooves —

Refrigerated Chambers, are the cables and fittings in accordance with the special requirements *Yes; L.C. cables with hardwood cleats*

Joints in Cables, state if any, and how made, insulated, and protected *None made*

Watertight Glands and Deck Tubes, are all cables passing through decks and watertight bulkheads provided with deck tubes or watertight glands *Yes*

Bushes in Beams and Non-watertight Partitions, where unarmoured cables pass through beams and non-watertight partitions, are the holes efficiently bushed *Yes*

Earthing Connections, state what earthing connections are fitted and their respective sectional areas *Copper strip 30% sectional*

AREA OF MAIN CABLES.

are their connections made as per Rule *Yes*

Alternative Lighting, are the groups of lights in the propelling machinery space arranged as per Rule *Yes*

position and method of control of the emergency supply and how the generator is driven. —

Navigation Lamps, are these separately wired *Yes*, controlled by separate switch and separate fuses *Yes*, are the fuses double pole *Yes*

are the switches and fuses grouped in a position accessible only to the officers on watch *Yes*

has each navigation lamp on an automatic indicator as per Rule *Yes*

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, watertight *Yes*

are any fittings placed in spaces in which goods are liable to be stacked in close proximity to them; if so, how are they protected —

are any fittings placed in spaces where inflammable or explosive dust or gases are liable to be present, if so, how are they protected *Fittings mounted on pumproom casings separated from pumprooms by gastight bowls*

are the cables led *Cables led external to pumprooms; no cables in pumprooms.*

where are the controlling switches situated *On outside of pumproom companion & pumproom duckhouse*

are all fittings suitably ventilated *Yes*, are all switches and lampholders constructed wholly of non-ignitable, non-absorbent materials *Yes*

Heating and Cooking Appliances, are they constructed and fitted as per Rule *Yes*, are air heaters constructed and fitted as per Rule —

Searchlight Lamps, No. of *1*, whether fixed or portable *fixed*, are their fittings as per Rule *Yes*

Arc Lamps, other than searchlight lamps, No. of —, are their live parts insulated from the frame or case —, are their fittings as per Rule —

Motors, are their working parts readily accessible *Yes*, are the coils self-contained and readily removable for replacement *Yes*

are the brushes, brush holders, terminals and lubricating arrangements as per Rule *Yes*, are the motors placed in well-ventilated compartments in which inflammable gases cannot accumulate and clear of all inflammable material *Yes*

water, steam or oil *Yes*, are their axes of rotation fore and aft *Yes*, if situated near unprotected woodwork or other combustible material, are the motors of the totally enclosed, pipe ventilated, forced draught, drip or flame proof type —

if not of this type, state distance of the combustible material horizontally or vertically above the motors — and —

have machines of over 100 BHP been inspected by the Surveyors during manufacture and testing —

field and motor speed regulators, starters and controllers constructed and fitted as per Rule *Yes*

are required, are these fitted as per Rule *Yes*

If portable lamps for use in dangerous spaces are supplied, are they of a self-contained, battery-fed type approved by the Home Office *None supplied*

Spare Gear, if the vessel is for open sea service have spares been supplied as per Rule *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	10	110	91	350	Single cylinder steam engines		
AUXILIARY ...								
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR, LIGHTING AND HEATING CONDUCTORS.

DESCRIPTION.	CONDUCTORS		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
	No. per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	Circuit.	Rule.			
MAIN GENERATOR ...	1	.04	19	.052	91	94	40	V.C.	L.C.A.M.
ENGINE CONNECTIONS	1	.04	19	.052	91	94	120	V.C.	L.C.A.M.
AUXILIARY GENERATOR ...									
EMERGENCY GENERATOR ...									
ROTARY TRANSFORMER MOTOR GENERATOR ...									
ENGINE ROOM ...									
BOILER ROOM ...	1	.01	7	.044	30	31	30	V.I.R.	L.C.A.M.
AUXILIARY SWITCHBOARDS									
Navigation	1	.0225	7	.064	17	46	700	V.I.R.	L.C.A.M.
Crew Accom. Aft	1	.01	7	.044	27	31	120	V.I.R.	L.C.A.M.
Eng'rs Accom. Aft	1	.01	7	.044	21	31	120	V.I.R.	L.C.A.M.
ACCOMMODATION ...									
Midship & Aft S.B. fed	1	.1	19	.083	44	118	600	V.I.R.	L.C.A.M.
supp'g Offrs. Accom.	1	.01	7	.044	26	31	10	V.I.R.	L.C.A.M.
First Light	1	.01	7	.044	8	31	4	V.I.R.	L.C.A.M.
Binacle	1	.0045	7	.029	10	18.2	40	V.I.R.	L.C.A.M.
WIRELESS	1	.01	7	.044	15	31	670	V.I.R.	L.C.A.M.
SEARCHLIGHT (500 walt.)	1	.002	3	.029	4.6	7.8	30	V.I.R.	L.C.M.
MASTHEAD LIGHT	1	.002	3	.029	4	7.8	340	V.I.R.	L.C.A.M.
SIDE LIGHTS	1	.002	3	.029	4	7.8	100	V.I.R.	L.C.M. in pipe
COMPASS LIGHTS	1	.002	3	.029	14	7.8	40	V.I.R.	L.C.M.
STEAM LIGHTS	1	.002	3	.029	4	7.8	720	V.I.R.	L.C.A.M.
CARGO LIGHTS (Cluster 6x100 walt.)	1	.005	44	.012	5.5	13	7	V.I.R.	Cable type
ARC LAMPS									
HEATERS									

MOTOR CONDUCTORS.

DESCRIPTION.	No. of Motors.	CONDUCTORS.		COMPOSITION OF STRAND.		TOTAL MAXIMUM CURRENT. AMPERES.		Approximate Length. (Lead and Return.) Feet.	Insulated with	HOW PROTECTED.
		No. Per Pole.	Total Nominal Area per Pole Sq. Ins.	No.	Diameter.	In Circuit.	Rule.			
BALLAST PUMP										
MAIN BILGE LINE PUMPS										
GENERAL SERVICE PUMP										
EMERGENCY BILGE PUMP										
SANITARY PUMP										
CIRC. SEA WATER PUMPS										
CIRC. FRESH WATER PUMPS... ..										
AIR COMPRESSOR										
FRESH WATER PUMP										
ENGINE TURNING GEAR... ..										
ENGINE REVERSING GEAR										
LUBRICATING OIL PUMPS										
OIL FUEL TRANSFER PUMP... ..										
WINDLASS										
WINCHES, FORWARD										
Refrig. Machy. feed pump	1	.01	7	.044	33	38	140	V.C.	L.C.A.MB.	
Refrig. Comp.	1	.01	7	.044	28	38	40	V.C.	L.C.A.MB.	
Drinking Water Pump	1	.002	3	.029	5	7.8	60	V.I.R.	L.C.A.MB.	
STEERING GEAR—										
(a) MOTOR GENERATOR...										
(b) MAIN MOTOR										
WORKSHOP MOTOR										
VENTILATING FANS										
Eng. Rm. Machy. feed supply	1	.01	7	.044	37	38	30	V.C.	L.C.A.MB.	
Sanitary Pump	1	.0045	7	.029	16	18.2	170	V.I.R.	L.C.A.MB.	
Drill	1	.003	3	.036	8	12	190	V.I.R.	L.C.A.MB.	
Brander	1	.003	3	.036	8	12	190	V.I.R.	L.C.A.MB.	
F.W. Pump.	1	.002	3	.029	5	7.8	170	V.I.R.	L.C.A.MB.	

All Conductors are of annealed copper conforming to British Standard Specification No. 7 (or International Electro-technical Commission Publication No. 28).

The Insulated Conductors are guaranteed to withstand the immersion and resistance tests specified in the Rules.

The foregoing is a correct description.

FURNESS SHIPBUILDING CO. LIMITED

P. S. Glover

Electrical Engineer.

Date 23rd JUNE 1937

COMPASSES.

Distance between electric generators or motors and standard compass 240 feet

Distance between electric generators or motors and steering compass 230 feet

The nearest cables to the compasses are as follows:—

A cable carrying .14 Ampères on the ~~foot~~ from standard compass 10 feet from steering compass.

A cable carrying .14 Ampères 10 feet from standard compass on the ~~foot~~ 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.

FURNESS SHIPBUILDING CO. LIMITED

Jas. M. Robertson

Builder's Signature.

Date

Secretary.

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

General Remarks (State quality of workmanship, opinions as to class, &c. The above installation has been

fitted out under special survey. The materials used and the workmanship are good. On completion the dynamos, governors, main switchboard, fuses, switches, cables, motors and fittings were examined and tested under working conditions and found satisfactory and suitable for a classed vessel.

Noted

HR

26.6.37

Total Capacity of Generators 20 Kilowatts.

The amount of Fee ... £ 17 : 10 : 14-6 1937

Travelling Expenses (if any) £ : : 1-7 1937

Gautsion & W.T. Badger
Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 2 JUL 1937

Assigned

See Mdb 2.E. 16030



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Foundation