

# REPORT ON ELECTRICAL EQUIPMENT

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

21 APR 1949

Received at London Office

Date of writing Report 4<sup>TH</sup> APRIL 1949 When handed in at Local Office 14 APR 1949 Port of GLASGOW  
 No. in Survey held at GREENOCK Date, First Survey 30<sup>TH</sup> DECEMBER 1948 Last Survey 26<sup>TH</sup> MARCH 1949  
 Reg. Book. (No. of Visits 4)

91483 on the BRITISH PRUDENCE Tons { Gross 8577  
 Built at GLASGOW By whom built BLYNESWOOD S.B.C. LTD Yard No. 90 When built 1949  
 Owners BRITISH TANKER CO LTD Port belonging to LONDON

Installation fitted by MESSRS SUNDERLAND FORGE & ENGINEERING CO LTD When fitted 1949

Is vessel equipped for carrying Petroleum in bulk YES Is vessel equipped with D.F. YES E.S.D. YES Gy.C. YES Sub.Sig. YES Radar YES

Plans, have they been submitted, and approved YES System of Distribution TWO WIRE Voltage of Lighting 110

Heating YES Power 110 D.C. or A.C., Lighting D.C. Power D.C. If A.C. state frequency YES

Prime Movers, has the governing been found as per Rule when full load is thrown on and off YES Are turbine emergency governors fitted

with a trip switch YES Generators, are they compound wound YES and level compounded under working conditions YES

if not compound wound state distance between generators YES and from switchboard YES Are the generators 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 YES Have certificates of

test for machines under 100 kw. been supplied YES and the results found as per Rule YES

Position of Generators STARBOARD SIDE OF ENGINE ROOM

is the ventilation in way of generators satisfactory YES are they clear of inflammable material and protected from mechanical injury and

damage from water, steam and oil YES Switchboards, where are main switchboards placed NEAR GENERATORS

are they in accessible positions, free from inflammable gases and acid fumes and protected from mechanical injury and damage from water,

steam and oil YES, what insulation 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 YES Is the construction as per Rule, including locking of screws and nuts YES Description of Main Switchgear

for each generator and arrangement of equaliser switches 700 AMP TRIPLE POLE CIRCUIT BREAKER FITTED WITH OVERLOAD

AND REVERSE CURRENT TRIPS

and the switch and fuse gear (or circuit breakers) for each outgoing circuit 300 AMP, 200 AMP, 100 AMP, 60 AMP OR 30 AMP D.P.

KNIFE PATTERN SWITCHES WITH 'ZED' TYPE FUSES

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

ammeters TWO voltmeters YES synchronising devices. For compound machines in parallel are the ammeters and reversed current

protection devices connected on the pole opposite to the equaliser connection YES Earth Testing, state means provided YES

EARTH LAMPS

Switches, Circuit Breakers and Fuses, are they as per Rule YES, are the fuses an Approved Type YES

make of fuses SIEMENS 'Z' TYPE, are all fuses labelled YES If circuit breakers are provided for the generators, at what

overload do they operate FULL LOAD, and at what current do the reversed current protective devices operate 10%-15% FL.

Joint Boxes, Section Boards and Distribution Boards, is the construction as per Rule YES

Cables, are they insulated and protected as per Rule YES, if otherwise than as per Rule are they of an Approved Type YES

state maximum fall of pressure between bus bars and any point under maximum load 3.8 VOLTS, are the ends of all cables having a sectional

area of 0.01 square inch and above provided with soldering sockets YES Are all paper insulated and varnished cambric insulated

cables sealed at the ends YES Are all the cable runs in accessible positions, not exposed to drip or accumulation of water or oil,

high temperatures or risk of mechanical damage YES, are any cables laid under machines or floorplates NO, if so, are they

adequately protected YES Are cables in machinery spaces, galleys, laundries, etc., lead covered YES or run in conduit YES

of the "HR" type YES State how the cables are supported or protected MAINS - L.C.B. CABLES CLIPPED TO STEEL

PLATE WITH COVER FITTED. MACHINERY SPACE - L.C.B. CABLES CLIPPED TO STEELWORK OR TRAY.

ACCOMMODATION: L.C.B. CABLE CLIPPED TO WOODWORK.

Are all lead sheaths, armouring and conduits effectually bonded and earthed YES Are all cables passing through decks and watertight

bulkheads provided with deck tubes or watertight glands YES, where unarmoured cables pass through beams, etc., are the holes

effectively bushed YES Refrigerated chambers, are the cables and fittings as per Rule YES



Insulation Tests, has the insulation resistance of all circuits and apparatus been tested and found satisfactory.....YES

ALL IMPORTANT MOTORS TO BE ENUMERATED.		No.	B.H.P.	MOTOR CABLES.						
TURNING GEAR	1	10	1	19/052	80✓	104	152	V.C.	LCAB.	
MID BOAT WINCHES.	2	7.5	1	19/052	65✓	104	140	V.C.	LCB	
AFT. BOAT WINCHES	2	7.5	1	19/052	65✓	104	212	V.C.	LCB	
REFRIG. COMPRESSORS.	2	4	1	7/064	35✓	75	32	V.C.	LCAB	
PURIFIERS	2	2.5	1	7/044	22✓	31	270	RUBBER	LCB.	
HET VENT. FANS.	2	2.75	1	7/044	24✓	31	64	RUBBER	LCB.	
MID. VENT FANS.	2	2	1	7/044	17✓	31	180	RUBBER	LCB.	
ENGINE ROOM VENT FANS.	1	1.5	1	7/044	14✓	31	162	RUBBER	LCAB.	
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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.

P. Pro. THE SUNDERLAND FORGE & ENGINEERING CO. LTD. Electrical Contractors. Date 5th April 1949.

*J.C. Thanks Jan*

#### COMPASSES.

Have the compasses been adjusted under working conditions? YES

BLYTHSWOOD SHIPBUILDING CO., LTD.

Builder's Signature. Date 11/4/49

SECRETARY

Have the foregoing descriptions and schedules been verified and found correct? YES

Is this installation a duplicate of a previous case? YES If so, state name of vessel BRITISH PROGRESS

Plans. Are approved plans forwarded herewith? No If not, state date of approval 25<sup>TH</sup> MARCH 1948

Certificates. Are certificates of test for motors engaged on essential sea 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 installation of this vessel has been fitted on board under Special Survey, tested under working conditions and found satisfactory. The quality of materials and workmanship is good.*

*Noted and 12/5/49*

Total Capacity of Generators 150 Kilowatts.

The amount of Fee ... £ 62 : 10 : When applied for,

20 APR 1949

When received,

Travelling Expenses (if any) £ 0

Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 20 APR 1949

Assigned.

SEE ACCOMPANYING MACHINERY REPORT.