

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Recorded at London Office

21 MAR 1946

Date of writing Report 22<sup>ND</sup> FEBRUARY 1946 When handed in at Local Office 2. 3. 1946 Port of NEWCASTLE-ON-TYNENo. in Survey held at WALKER - ON-TYNE Date, First Survey (1945) Oct. 3<sup>RD</sup> Last Survey 15<sup>TH</sup> FEBRUARY 1946  
Reg. Book. 36844 on the M.V. "BRITISH CAUTION" Tons { Gross 8552  
Net 4923

Built at NEWCASTLE By whom built SWAN HUNTER &amp; Wigham RICHARDSON Yard No. 1764 When built 1945

Owners BRITISH TANKER CO. LTD. Port belonging to

Electrical Installation fitted by CAMPBELL &amp; ISHERWOOD LTD. Contract No. - 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 INSULATED Voltage of supply for Lighting 110

Heating - Power - Direct or Alternating Current, Lighting D.C. Power - 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 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

400 AMPERE DOUBLE POLE CIRCUIT BREAKER WITH OVERLOAD, TIME LAG AND NO

VOLT PROTECTION

and for each outgoing circuit DOUBLE POLE CHANGEDOVER QUICK BREAK SWITCHES AND A FUSE IN

EACH POLE

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 140%, 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 YES

state maximum fall of pressure between bus bars and any point under maximum load 6 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



PARTICULARS OF GENERATING PLANT.

## GENERATOR CABLES

### MAIN DISTRIBUTION CABLES.

LIGHTING AND HEATING, ETC., CABLES.

MOTOR CABLES.

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	D.H.P.							
THERMOTANK MIDSHIP.	1	4	1	7/064	33	75	58	V.C.	L.C.
" AFT.	1	4	1	7/064	33	75	152	V.C.	L.C.A.B.
BOAT HOISTS MIDSHIP FORE.	1	2	1	7/044	16.7	42	96	V.C.	L.C.
" " " AFT.	1	2	1	7/064	16.7	75	70	V.C.	L.C.A.B.
WORKSHOP MOTOR	1	5	1	7/064	42	75	136	V.C.	L.C.A.B.
CRANE MOTOR	1	3	1	7/036	26.2	28	170	V.C.	L.C.A.B.
PRIMING PUMP.	1	1.5	1	7/036	13.5	28	84	V.C.	L.C.A.B.
LUB. OIL PURIFIER MOTOR	1	2	1	7/036	17.2	28	180	V.C.	L.C.A.B.
FUEL " " "	1	2	1	7/044	17.2	42	30	V.C.	L.C.A.B.
BOAT HOIST AFT. STAR	1	2	1	7/044	16.7	42	104	V.C.	L.C.A.B.
" " " PORT.	1	2	1	7/044	16.7	42	54	V.C.	L.C.A.B.



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.

CANTRELL & SHEPHERD LTD.

*John Hunter*

Electrical Engineers.

Date 26th Feb 1946

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass..... 210 FEET

Minimum distance between electric generators or motors and steering compass..... 200 FEET

The nearest cables to the compasses are as follows:—

A cable carrying •1H Ampères INSIDE feet from standard compass..... feet from steering compass.

A cable carrying •1H Ampères..... feet from standard compass..... INSIDE 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..... EVERY course in the case of the

standard compass, and NIL degrees on..... EVERY course in the case of the steering compass.

*John Hunter*  
SWAN, HUNTER, & WICHAM RICHARDSON, LTD.

Builder's Signature.

Date 27th March 1946

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

Plans. Are approved plans forwarded herewith..... No 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 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 generators operated under working conditions with satisfactory results. The equipment as installed, is in my opinion, suitable for a diesel vessel.*

*Noted*

*How 1.4.46*

5m. 4.50—Transfer. (MADE AND PRINTED IN ENGLAND.)  
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

Total Capacity of Generators..... 60 ✓ Kilowatts.

The amount of Fee ... .. £ 28 : 10 : 20 MAR 1946

Travelling Expenses (if any) £ : : When received.....19.....

*R. Storey*  
Surveyor to Lloyd's Register of Shipping.

Committee's Minute..... FRI. 5 APR 1946

Assigned..... See F.E. machy rpt.



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Foundation