

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

27 JAN 1942

30 JAN 1942

Date of writing Report.....19..... When handed in at Local Office.....19..... Port of.....

No. in Survey held at..... Date, First Survey..... Last Survey.....
Reg. Book..... (Number of Visits.....)

on the Tanker **EMPIRE BOY.** Tons { Gross 859
Net 362

Built at **Goole** By whom built **Goole S.B. & Reps Co. Ltd** Yard No. **361** When built **1941-12**
Owners **The Ministry of War Transport** Port belonging to **Goole**

Electrical Installation fitted by **Humber Electrical Engineering Co. Ltd** Contract No..... When fitted.....

Is vessel fitted for carrying Petroleum in bulk **Yes** Is vessel equipped with D.F. **✓** E.S.D. **✓** Gy.C. **✓** Sub.Sig. **✓**

Have plans been submitted and approved **Yes** System of Distribution **Constant pressure Parallel** Voltage of supply for Lighting **110**
Heating **✓** Power **✓** Direct or Alternating Current, Lighting **D.C.** Power **✓** If Alternating Current state frequency **✓** Prime Movers, **2 Wire**

has the governing been tested and found efficient when the whole 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 **✓**, are shunt field regulators provided **Yes** Is the compound winding connected to the negative or positive pole **✓**

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 **Starboard side of 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 **Engine room, adjacent to Generator**

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 **Sendamyo**, 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

D.P. switches & fuses

and for each outgoing circuit **D.P. switches & fuses**

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule **✓** Instruments on main switchboard **One**

ammeters **One** 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**

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 ...	One	12	110	109.	550	Steam Engine	✓	✓
EMERGENCY ...								
ROTARY TRANSFORMER								

AUX. SWITCHBOARDS AND SECTION BOARDS ...		MAIN DISTRIBUTION CABLES.					
Navigation	6we	3/036	2.	10 ✓	260	V.I.R.	L.C. in Tube.
Wheel House (linked up to Acc)	"	7/044	3	31 ✓	60		L.C.
Accommodation	"	7/044	14+3	"	200	"	L.C. in Tube
Crew Room	"	"	9	"	12	"	L.C. & Arm'd
After Cabin	"	7/029	7.	15 ✓	88	"	L.C. & Arm'd
D.G.	"	7/064	23	46 ✓	—	—	—

[illegible]

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.

By the Electrical Engineer

108 Shattuck

Electrical Engineers.

Date

COMPASSES.

Minimum distance between electric generators or motors and standard compass

Minimum distance between electric generators or motors and steering compass

The nearest cables to the compasses are as follows:—

A cable carrying Ampères feet from standard compass feet from steering compass.

A cable carrying Ampères 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

Has the effect of switching on and off circuit, motors and other electro-magnetic apparatus within the vicinity of the compasses been noted

The maximum deviation due to electric currents was found to be degrees on course in the case of the

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

Builder's Signature.

Date

Is this installation a duplicate of a previous case

If so, state name of vessel

General Remarks (State quality of workmanship, whether insulation tests, etc., have been made, opinions as to class, etc.)

This Electric installation has been fitted in board in accordance with the Rules, the approved specifications & plans. The workmanship & materials are good & when tested as prescribed by the Rules it was found satisfactory in every respect

*Article
L.H.
6/2/42*

Total Capacity of Generators Kilowatts.

The amount of Fee ... £ 12 : 0

+ 25% for Spec.

3 : 0
15 : 0

Travelling Expenses (if any) £ :

When received.

.....19.....

FRI. 27 FEB 1942

Committee's Minute

Assigned

See Ind SE 51479

[Signature]

Surveyor to Lloyd's Register of Shipping.