

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

22 JUN 1949

Received at London Office.....

Date of writing Report... 9.6.49... When handed in at Local Office... 19... Port of... LIVERPOOL.

No. in Survey held at... BIRKENHEAD... Date, First Survey... 12/14... Last Survey... 576/19 49  
Reg. Book.95713 on the T.E.V. "THAUMASTUS" Tons { Gross... 10670  
Net... 6315

Built at... PORTLAND. OR. By whom built... KAISER CO. INC. Yard No. — When built... 1945

Owners... ANGLO-SAXON PETROLEUM CO. LTD. Port belonging to... LONDON.

Electrical Installation fitted by... PRESUMED BY BUILDERS. Contract No. — When fitted... 1945

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. NO

Have plans been submitted and approved... Typical plans of 12 Tankers... System of Distribution... Voltage of supply for Lighting... 120 A.C.

Heating... 220 AC... Direct or Alternating Current, Lighting... AC... Power... AC... If Alternating Current state periodicity... 60n 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... YES Generators, are they compound wound... YES, are they level compounded under working conditions... —

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... NO Have certificates of

test for machines under 100 kw. been supplied... NO and the results found as per rule... — Are the lubricating arrangements and the construction

of the generators as per rule... YES Position of Generators... In main 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... In main 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... Dead-front board, insulating material appears to be American, 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... Triple-pole circuit

breakers for A.C. Generators. Double-pole circuit breakers for D.C. Generators.

and for each outgoing circuit... Triple or double-pole circuit breakers.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule... YES Instruments on main switchboard... 14

ammeters... 5... voltmeters... 1... synchronising devices. For compound machines in parallel is the ammeter connected on the pole opposite to the

equaliser connection... — Earth Testing, state means provided... Load indicating lamps on A.C. &amp; D.C. Systems

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... 1.5 times, 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... —

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

\* Generating set consist of 400 K.V.A. Alternator, 75 Kw. Exciter (Shunt wound) and 55 Kw. Generator (Comp. wound) all mounted on common bedplate and driven by steam turbine.



PARTICULARS OF GENERATING PLANT.								
DESCRIPTION OF GENERATOR.	No. of	RATED AT				DRIVEN BY	WHERE DRIVEN BY AN INTERNAL COMBUSTION ENGINE.	
		Kilowatts.	Volts.	Amperes.	Revs. per Min.		Fuel Used.	Flash Point of Fuel.
MAIN	2	400 (500 KVA)	450	642	1200	Steam Turbines.		
MAIN MORGAN SCOTERS →	2	75	110	682				
	2	55	120	458				
EMERGENCY	1	75 (93.7 KVA)	450	120.5	1200	Oil Engine	Saeal Oil	Above 150°F.
ROTARY TRANSFORMER								

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	400 (500 KVA)	450	642	1200	Steam Turbine.		
MAIN McPHERSON EXCITERS →	2	75	110	682				
	2	55	120	458				
EMERGENCY	1	75 (93.7 KVA)	450	120.5	1200	Oil Engine	Seal Oil	Above 150°F.
ROTARY TRANSFORMER								

\* Purchasing the remains of 200 K.A.A. Veterans for \$2 M.  
\$2 M. purchase (Conf. Room) was made at some date  
by other means

[illegible]

WIRELESS	NAVIGATION LIGHTS	LIGHTING AND HEATING
Kidslip - Forecastle Lighting.	Bat Deck Room.	Upper Deck
Engin's Room	Boiler Room	Cuticle Messes
Main Motor	" Forward "	Battery Charge. For. Room.
For. Room Lig from 220V AC. En Bus	Eng " " 115V. D.C. Bus.	

ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.							
Eng'g Room Vent. Fans.	4	2	1	6530	3.19	18	60	V.C.	L.C.A.
Air Compressor	1	5	1	6530	6.87	18	30	"	"
Vacuum Sucking Gear.	1	2	1	6530	2.91	18	20	"	"
Eng. Room Bilge Pump	2	10	1	10,400	13.7	25	40	"	"
Main Condenser Circulating P.	1	125	1	300,800	174	234	60	"	"
Main Shaft Sucking Gear	1	5	1	6530	8.5	18	100	"	"
Main Propulsion Motor Fan	1	15	1	16500	21.3	34	75	"	"
Lab. Oil Service Pump.	2	5	1	6530	7.3	18	60	"	"
" Separator	1	2	1	6530	3.19	18	120	"	"
Air Bulb-vent Pumps	2	50	1	66,400	60.5	83	60	"	"
Sucking Gear Motor	2	30	1	33100	43.5	55	165	"	"
Main Condensate Pumps	2	25	1	26300	32	47	50	"	"
Acc. " "	1	15	1	16500	19	34	75	"	"
" Circulating "	1	30	1	33100	38.9	55	90	"	"
Cooler " "	1	10	1	10,400	13	25	60	"	"
Fuel Oil Service Pumps.	2	7.5	1	6530	10	18	80	"	"
Fossil Drangle Fans	3	50	1	66,400	63	83	80	"	"
Evaporator Feed Pump	1	1	1	6530	1.56	18	90	"	"
Accommodation Vent Fans	2	1.25	1	6530	2.2	18	90	"	"
Fresh Water Pumps	2	2	1	6530	3.08	18	125	"	"
Ref'g. Compressor Motor	1	7.5	1	6530	9.8	18	150	"	"
" Circulating P.	1	1	1	6530	1.5	18	125	"	"
Sanitary Pump	1	7.5	1	6530	10.3	18	125	"	"
Drinking Water Pumps	2	1	1	6530	1.56	18	200	"	"
Garage Pumps	3	200	1	450,000	243	309	60	"	"
Shipping Pumps	2	50	1	66,400	63	83	45	"	"
Fuel Oil Transfer Pumps	2	20	1	16,500	25	34	50	"	"



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.

Electrical Engineers.

Date

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass

40 ft.

Minimum distance between electric generators or motors and steering compass

40 ft.

The nearest cables to the compasses are as follows:—

A cable carrying 1.5 Ampères 10 feet from standard compass 7 feet from steering compass.

A cable carrying 0.2 Ampères 10 feet from standard compass 10 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 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. Generally similar to other T. T. T. If so, state name of vessel *Chalder Sail etc.*

Plans. Are approved plans forwarded herewith

If not, state date of approval

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith

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

Equipment of this vessel appears to have been installed in accordance with American Practice and the typical approved plans. The details of the report were obtained from these plans and personal observation. A number of repairs and alterations have been effected, including the installation of flameproof fittings in certain deck spaces in lieu of non-flameproof type originally fitted, and the removal of remote control equipment for cargo pumps etc from position near pump room skylight to new position in poop, also pilot light circuits of a number of motor in machinery spaces originally connected to 120 Volt D.C. supply have been altered to comply with <sup>1904</sup> Rules, and now connected to a 24 Volt D.C. supply. The generator, motor control gear, transformer, switch gear, cables, etc. have been examined, tested, necessary repairs effected, insulation test carried out and found satisfactory.

The equipment appears to be in good and efficient condition and is in strict accordance with the Society's Rules, it is, in my opinion, eligible to be accepted for Classification.

Total Capacity of Generators 985 Kilowatts

(2 at 400, 2 at 55 and 1 at 75 Kw)  
(2-75 Kw Exciter are not included in total)

The amount of Fee £ 30 : 0 : 0

When applied for,

When received.

Travelling Expenses (if any) £ :

LIVERPOOL

21 JUN 1949

Assigned

See Machinery Report Minute

Noted *sent 4/7/49*

*H. H. H. H.*

Surveyor to Lloyd's Register of Shipping.



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