

## REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

MAR 26 1941

Date of writing Report. 10<sup>th</sup> March 1941. When handed in at Local Office. 25.3.41 Port of Glasgow.No. in Survey held at Glasgow & Greenock. Date, First Survey 19.3.40 Last Survey 12<sup>th</sup> March 1941  
Reg. Book.

87501 on the M.V. "CAPE HAWKE"

Built at Port Glasgow By whom built Lithgows Ltd. Yard No. 930. When built 1941

Owners Lyle Shipping Co (Mars) Port belonging to Glasgow.

Electrical Installation fitted by W. Muir Goodfellow &amp; Co Ltd. Contract No. 930. When fitted 1941

Is vessel fitted for carrying Petroleum in bulk. - Is vessel equipped with D.F. ☒ E.S.D. ☒ Gy.C. - Sub.Sig. -Have plans been submitted and approved. ☒ System of Distribution two wire Voltage of supply for Lighting 110

Heating. - Power 110 Direct or Alternating Current, Lighting D.C. Power D.C. If Alternating Current state frequency. - Prime Movers,

has the governing been tested and found efficient when the whole load is suddenly thrown on and off. ☒ Are turbine emergency governors fitted with atrip switch as per Rule. - Generators, are they compound wound. ☒ 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. ☒ are shunt field regulators provided. ☒ 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. ☒ and the results found as per rule. ☒ Are the lubricating arrangements and the constructionof the generators as per rule. ☒ Position of Generators. In engine roomis the ventilation in way of generators satisfactory. ☒ are they clear of inflammable material. ☒ 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. ☒ are the bedplates and frames earthed. ☒ and the prime movers and generators in metalliccontact. ☒ Switchboards, where are main switchboards placed. Near generators.are they in accessible positions, free from inflammable gases and acid fumes. ☒ are they protected from mechanical injury and damage from water, steamand oil. ☒ if situated near unprotected combustible material state distance from same horizontally. - and vertically. - what insulationmaterial is used for the panels. ☒ if of synthetic insulating material is it an Approved Type. ☒ if ofsemi-insulating material (slate or marble) are all conducting parts insulated therefrom as per Rule. - Is the frame effectually earthed. ☒Is the construction as per Rule. ☒ including accessibility of parts. ☒ absence of fuses on the back of the board. ☒ individual fusesto pilot and earth lamps, voltmeters, etc. ☒ locking of screws and nuts. ☒ labelling of apparatus and fuses. ☒ fuses on the "dead"side of switches. ☒ Description of Main Switchgear for each generator and arrangement of equaliser switches.

D.P. Switch and fuses.

and for each outgoing circuit. D.P. c/o Switch and fuses.

Are compartments containing switchboards composed of fire-resisting material or lined as per Rule. - 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.



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	12	110	109	500	Steam engine		
EMERGENCY ...								
ROTARY TRANSFORMER								

GENERATOR CABLES.								
DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULA- TED WITH.	HOW PROTECTED.
		No. in Parallel For Pole.	Sectional Area or No. and Dia. of Strands, Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR ... ..	12	1	19.083	109	118.0	30	Rubber.	CONDUIT.
" " EQUALISER ... ..								
EMERGENCY GENERATOR ... ..								
ROTARY TRANSFORMER: MOTOR ... ..								
" " GENERATOR ... ..								
MAIN DISTRIBUTION CABLES.								
AUX. SWITCHBOARDS AND SECTION BOARDS ... ..								
CARGO S.B.		1	7.064	32	46	100	"	CONDUIT.
LIGHTING AND HEATING, ETC., CABLES.								
WIRELESS ... ..		1	7.029	4.5	15	440	Rubber.	CONDUIT.
NAVIGATION LIGHTS ... ..		1	7.029	5.0	15	440	"	"
LIGHTING AND HEATING ... ..								
SALOON ALCONM. DB.		1	7.052	20	37	370	"	"
ENGINEERS " DB.		1	7.044	21	31	120	"	"
CREWS ACCM. DB.		1	7.044	10	31	440	"	"
ENGINE ROOM. DB.		1	0.225	30	75	60	PYROTENAX	
CARGO DB FORD		1	7.064	16	46	350	Rubber.	CONDUIT.
" " AFT		1	7.044	16	31	160	"	"
MOTOR CABLES.								
ALL IMPORTANT MOTORS TO BE ENUMERATED.	No.	B.H.P.						
REFRIG. MACH.	1		1	7.052	25	31.37	300	Rubber. CONDUIT.
LUB OIL. PURIFIER.	2	3.0	1	0.225	27	75	200	PYROTENAX CABLE
AIR. BLOWER.	1	5.0	1	0.225	42	75	300	"
FUEL. PRIMING. PUMP.	1	1.5	1	0.007	15	28	80	"



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.

For W. MUIR GOODFELLOW & COY LTD

Electrical Engineers.

Date 22/3/41

#### COMPASSES.

Minimum distance between electric generators or motors and standard compass 104 feet

Minimum distance between electric generators or motors and steering compass 100 feet

The nearest cables to the compasses are as follows:—

A cable carrying 2 Ampères led into feet from standard compass led into feet from steering compass.

A cable carrying 5 Ampères 10 feet from standard compass 8 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 circuits, 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 nil degrees on Anf course in the case of the

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

LITHGOWS LIMITED.

John A. Filler Secretary

Builder's Signature.

Date 21/3/41

Is this installation a duplicate of a previous case. If so, state name of vessel M.Y. "CAPE CLEAR."

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 fitted on board under special survey, tested under full working conditions and found satisfactory. The material and workmanship are good.

Rob  
25/3/41

Noted  
27/3/41

Total Capacity of Generators 24 Kilowatts.

The amount of Fee ... £ 19 : 10 : When applied for, at C.R.B.

Travelling Expenses (if any) £ 7/3 : When received, 19

Committee's Minute GLASGOW 25 MAR 1941

Assigned SEE ACCOMPANYING MACHINERY REPORT.

J. G. Fiddall  
Surveyor to Lloyd's Register of Shipping.



© 2021

Lloyd's Register  
Foundation