

REPORT ON ELECTRICAL EQUIPMENT.

(OTHER THAN FOR THE PROPULSION OF THE VESSEL)

Received at London Office

Date of writing Report... 17.3.52... 19... When handed in at Local Office... 21/5/52... 19... Port of... IPSWICH

No. in Survey held at... WIVENHOE... Date, First Survey... 26.11.51... Last Survey... 12.3.52... 19... (Number of Visits... 4...)

Reg. Book. on the MOTOR TANKER BARGE "KESTREL" Tons {Gross... 73.54
Net... 45.96

Built at... WIVENHOE... By whom built... JAMES COOK (WIVENHOE) LTD... Yard No... 1047... When built... 1951

Owners... JAMES W. COOK & CO LTD... Port belonging to... HULL

Electrical Installation fitted by... JAMES COOK (WIVENHOE) LTD... Contract No... 1047... When fitted... 1951

Is vessel fitted for carrying Petroleum in bulk... YES... Is vessel equipped with D.F. No... E.S.D. No... Gy.C. No... Sub.Sig. No...

Have plans been submitted and approved... YES... System of Distribution... TWO WIRE... Voltage of supply for Lighting... 24...

Heating... ✓... Power... 110... Direct or Alternating Current, Lighting... DIRECT... 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... ✓... 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... 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... ENGINE ROOM... AUXILIARY FITTED STAR SIDE FOR?

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

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... SANDANYA... if of synthetic insulating material is it an Approved Type... ✓... 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... DOUBLE POLE

and for each outgoing circuit... DOUBLE POLE

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

ammeters... 2... voltmeters... 2... 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... ✓... 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... PYROTEMAX

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... ✓... Are paper insulated and varnished cambric insulated cables sealed at the ends... ✓...

Are all lead sheaths, armouring and conduits effectively bonded and earthed. YES Refrigerated chambers, are the cables and fittings as per Rule. ✓

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 pushed. ✓ and with what material. ✓ Alternative Lighting, are the groups of lights in the engine and boiler rooms arranged as per Rule. YES Emergency Supply, state position. ✓ and method of control. ✓

Navigation Lamps, are they separately wired Yes controlled by separate double pole switches Yes and fuses Yes. Are the switches and fuses in a position accessible only to the officers on watch Yes, is an automatic indicator fitted No. Secondary Batteries, are they constructed and fitted as per Rule Yes, are they adequately ventilated Yes. what is the battery capacity in ampere hours 35

Fittings, are all fittings on weather decks, in stokeholds and engine rooms and wherever exposed to drip or condensed moisture, weatherproof YES *Are fittings installed where readily combustible materials or inflammable or explosive dust or gases are likely to be present* ✓, *if so, how are they protected* ✓

and where are the controlling switches fitted....., are all fittings suitably ventilated.....

are all fittings and accessories constructed and installed as per Rule..... Searchlight Lamps, No. of....., whether fixed or portable.....

....., are their fittings as per Rule..... Heating and Cooking, is the general construction as per Rule.....

are the frames effectually earthed. YES, are heaters in the accommodation of the convection type. NONE. Motors, are all motors constructed and

installed as per Rule.....[✓] and placed in well-ventilated compartments in which inflammable gases cannot accumulate and free from damage from water.

steam and oil....., if situated near unprotected combustible material state minimum distance from same horizontally..... and vertically..... Arc

motors coupled to oil fuel transfer and unit pressure pumps capable of being stopped from a position accessible in the event of fire in the pump compartment.....

Have motors of 100 BHP and over been inspected by the Surveyors during manufacture and testing..... Have certificates of test for motors under

100 BHP intended for essential services been supplied and the results found as per Rule.....☒..... Control Gear and Resistances, are they constructed and

fitted as per Rule..... Lightning Conductors, where required are they fitted as per Rule..... Ships carrying Oil having a Flash Point

less than 150° F. Have all the special requirements of the Rules for such ships been complied with.....YES....., are all fuses of the cartridge type.....YES.....

are they of an approved type.....YES..... Are the fittings for pump rooms, 'tween deck spaces, etc., in accordance with the special requirements for such

ships.....YES..... Are the cables lead covered as per Rule.....YES..... Spare Gear, if the vessel is for open sea service have spares been provided as per

rule....., are they suitably stored in dry situations..... Insulation Tests, has the insulation resistance of all circuits and apparatus been tested

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	14	24	10		MAIN ENGINE		
AUXILIARY	ONE	3	110			AUXILIARY DIESEL ENGINE	Diesel	
EMERGENCY ...								
ROTARY TRANSFORMER								

DESCRIPTION.	KILOWATTS.	CONDUCTORS.		MAXIMUM CURRENT IN AMPERES.		APPROX. LENGTH (lead plus return feet).	INSULATED WITH.	HOW PROTECTED.
		No. in Parallel Per Pole.	Sectional Area or No. and Dia. of Strands. Sq. ins. or sq. mm.	In the Circuit.	Rule.			
MAIN GENERATOR		ONE	003	2	10	18	PUROTANAX.	
" " EQUALISER								
Winding Generator.	3		NOT YET FITTED					
EMERGENCY GENERATOR								
ROTARY TRANSFORMER: MOTOR								
" " GENERATOR								

[illegible][illegible][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.

For and on behalf of
JAMES W. COOK & Co. (Wivenhoe) LTD.

Electrical Engineers.

Date **20 MAR 1952**

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 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 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 **YES** If so, state name of vessel **"ALBATROSS C"**

Plans. Are approved plans forwarded herewith **NO.** If not, state date of approval **28-8-51.**

Certificates. Are certificates of test for motors engaged on essential services and generators forwarded herewith **No**

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

This electrical installation has been carried out in accordance with plans approved and the requirements of the rules. The workmanship is good. insulation tests have been carried out and found to be within rule requirements. The installation has been examined & tested under working conditions and so far as completed found to be in order.

To complete this electrical installation the 3KW. 110V. Auxiliary dynamo remains to be fitted (to the Auxiliary pump and compressor set) and wired to the switch board, and on completion the 110 Volt installation requires to be operated under working conditions & dynamo governor operation.

Subject to satisfactory completion the undersigned considers the installation eligible for inclusion in +LMS - A1 Barge for the carriage of petroleum & petroleum products in bulk for canal & estuary service including Air & Cable navigation. See attached letter regarding electric cooker fitted in crew space for use.

Total Capacity of Generators **3 1/4** Kilowatts.

The amount of Fee **£ 5 : 0 : 0** When applied for,19.....

Travelling Expenses (if any) **£ See Encl. Report** When received,19.....

Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

See F.E. Mch. rpt



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Foundation