

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report _____ 19 _____ When handed in at Local Office 26.5.19 Port of GLASGOW

No. in Survey held at GLASGOW Date, First Survey 1.4.19 Last Survey 15.4.19 (Number of Visits 90)

Reg. Book. 89084 on the S/S "MICHAEL E" Tons { Gross 7628 Net 5508

Built at P. GLASGOW By whom built W. HAMILTON & CO. LD. Yard No. 446 When built 1941

Engines made at GLASGOW By whom made DAVID ROWAN & CO. LD. Engine No. 1064 When made 1941

Boilers made at -DO- By whom made -DO- Boiler No. 1064 When made 1941

Registered Horse Power - Owners BURY HILL SHIPPS CO. LD. Port belonging to LONDON

Nom. Horse Power as per Rule 443 Is Refrigerating Machinery fitted for cargo purposes NO Is Electric Light fitted YES

Trade for which Vessel is intended _____

ENGINES, &c.—Description of Engines TRIPLE EXPANSION Revs. per minute _____

Dia. of Cylinders 24"-39"-68" Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 13.89" as fitted 14 1/4" Crank pin dia. 14 1/4" Crank webs Mid. length breadth 22" Mid. length thickness 9 1/8" Thickness parallel to axis 9 1/8" Thickness around eye-hole 6 3/4"

Intermediate Shafts, diameter as per Rule 13.23" as fitted 13 3/8" Thrust shaft, diameter at collars as per Rule 13.89" as fitted 14 1/4"

Tube Shafts, diameter as per Rule _____ as fitted _____ Screw Shaft, diameter as per Rule 14.72" as fitted 15 1/8" Is the tube shaft fitted with a continuous liner { Yes }

Bronze Liners, thickness in way of bushes as per Rule 7/16" as fitted 13/16" Thickness between bushes as per Rule 5/16" as fitted 3/4" Is the after end of the liner made watertight in the propeller boss Yes If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner Yes

If the liner does not fit tightly at the part between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes

If two liners are fitted, is the shaft lapped or protected between the liners Yes Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft Yes Length of Bearing in Stern Bush next to and supporting propeller 5 1/4"

Propeller, dia. 17'-10" Pitch 17'-9" No. of Blades 4 Material CS whether Moveable No Total Developed Surface 117 sq. feet

Feed Pumps worked from the Main Engines, No. None Diameter _____ Stroke _____ Can one be overhauled while the other is at work Yes

Bilge Pumps worked from the Main Engines, No. 2 Diameter 4 1/2" Stroke 24" Can one be overhauled while the other is at work Yes

Feed Pumps { No. and size 20 9 1/2" x 7" x 21" How driven Steam Pumps connected to the Main Bilge Line { No. and size 10 11" x 14" x 18" 10 6 1/2" x 9" x 16" How driven Steam

Ballast Pumps, No. and size 10 11" x 14" x 18" Lubricating Oil Pumps, including Spare Pump, No. and size _____

Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 3 @ 3" Oil Filter 2 @ 3" 2 @ 2" In Holds, &c. Nº 1 & 4 Holds 2 @ 3" Nº 2 Hold 2 @ 4"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 5" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 8" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges Yes

Are all Sea Connections fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Part

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Overboard Discharges above or below the deep water line Above

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Yes Are the Blow Off Cocks fitted with a spigot and brass covering plate Yes

What Pipes pass through the bunkers _____ How are they protected _____

What pipes pass through the deep tanks _____ Have they been tested as per Rule _____

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one compartment to another Yes Is the Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from upper deck

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 5940 sq. ft.

Is Forced Draft fitted Yes No. and Description of Boilers 2 SE Working Pressure 225 lb.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

IS A DONKEY BOILER FITTED? NO If so, is a report now forwarded? Yes

Is the donkey boiler intended to be used for domestic purposes only Yes

PLANS. Are approved plans forwarded herewith for Shafting 14-3-40 Main Boilers Yes Auxiliary Boilers - Donkey Boilers -

Superheaters Yes General Pumping Arrangements - Oil fuel Burning Piping Arrangements 25/4/40

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied List attached

The foregoing is a correct description.
 For David Rowan & Co. Ltd.
 Arch. N. Grierson

Manufacturer.



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 W 195-0206

1940 Apr: 1-2 May 8 June: 3-13-14-27-28 July: 9-11-18-24-26-29-30 Aug: 13-16-20-21-27
 During progress of work in shops -- Sep: 4-6-11-16-18-19-23-24-25-26 Oct: 1-2-3-4-7-11-15-17-18-21-24-28-30 Nov: 1-4-6-7-12-18-19-21-25-26-29 Dec: 3-4-5-9-10-12-13-16-24-27-30-31 (1941) Jan: 6-15-20-27 Feb: 4-14-17
 During erection on board vessel --- 25 Mar: 3-4-6-10-13-19-20-21-24-25-26 Apr: 4-15 May 15
 Total No. of visits 90

Dates of Examination of principal parts—Cylinders 23-9-40 Slides 15-10-40 Covers 23-9-40
 Pistons 6-11-40 Piston Rods 6-11-40 Connecting rods 26-9-40
 Crank shaft 2-10-40 Thrust shaft 12-12-40 Intermediate shafts 28-10-40
 Tube shaft — Screw shaft 26-11-40 Propeller 26-11-40
 Stern tube 3-12-40 Engine and boiler seatings 11-2-41 GRK. Engines holding down bolts 19-3-41
 Completion of fitting sea connections 11-2-41 GRK.
 Completion of pumping arrangements 15-4-41 Boilers fixed 19-3-41 Engines tried under steam 15-5-41
 Main boiler safety valves adjusted 4-4-41 Thickness of adjusting washers
 Crank shaft material SM. steel Identification Mark 9113 A7B Thrust shaft material SM. steel Identification Mark 9113 A7B
 Intermediate shafts, material SM. steel Identification Marks 9113 A7B Tube shaft, material — Identification Mark —
 Screw shaft, material SM. steel Identification Mark 8982 Steam Pipes, material steel Test pressure 675 lb. Date of Test 26. Mar. 41
 Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150°F. Yes
 Have the requirements of the Rules for the use of oil as fuel been complied with Yes
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo — If so, have the requirements of the Rules been complied with —
 If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with —
 Is this machinery duplicate of a previous case Yes If so, state name of vessel Kingston Hill

General Remarks (State quality of workmanship, opinions as to class, &c. This machinery has been built under special survey in accordance with the Rules and approved plans, and the materials and workmanship are good. It has been satisfactorily installed in the vessel, tested under working conditions and found efficient and, in my opinion, is eligible to be classed in the Register Book with mark +LMC 5,41 and notation CL.

9th
 26/5/41

GLASGOW

The Surveys are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ...	£ 5 : -	When applied for, 26 MAY 1941
Special ...	£ 91 : 9	
Donkey Boiler Fee ...	£ : :	When received, 19
Travelling Expenses (if any) £	: :	

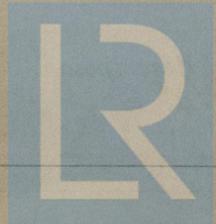
[Signature]

[Signature]
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **GLASGOW 27 MAY 1941**

Assigned *- LMC 5.41*

[Signature]



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