

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Writing Report 16/6/49 19 When handed in at Local Office 16/6/49 19 Port of Rio de Janeiro
 Survey held at Rio de Janeiro Date, First Survey 28/8/47 Last Survey 16/6/49 19
 Book. on the Twin Screw "RIO MINHO" ex Transport Ferry 3018 (Number of Visits 26)
 at Newcastle By whom built Hawthorn Leslie & Co. Ltd. Yard No. 680 Tons { Gross
 nes made at Sunderland By whom made G. Clark (1938) Ltd. Engine No. 1316/1335 When built 1945
 rs made at Liverpool By whom made Cammell Lairds Boiler No. 2285 When made 1945
 ndered Horse Power Owners E. G. Fontes & Co. Port belonging to Rio de Janeiro
 Horse Power as per Rule 658 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes
 for which Vessel is intended For coasting service between the River Plate and Trinidad

INES, & Co. — Description of Engines
 of Cylinders Length of Stroke No. of Cylinders No. of Cranks
 shaft, dia. of journals as per Rule Crank pin dia. Crank webs Mid. length breadth Thickness parallel to axis
 as fitted Newcastle Report No. 102953 shrunk Thickness around eye-hole
 mediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule
 as fitted and Sunderland Report No. 34402 as fitted
 Shafts, diameter as per Rule Screw Shaft, diameter as per Rule Is the tube shaft fitted with a continuous liner
 as fitted Is the after end of the liner made watertight in the
 Liners, thickness in way of bushes as per Rule Thickness between bushes as fitted
 boss If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner
 ner 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
 liners are fitted, is the shaft lapped or protected between the liners Is an approved Oil Gland or other appliance fitted at the after end of the tube
 If so, state type Length of Bearing in Stern Bush next to and supporting propeller
 er, dia. Pitch No. of Blades Material whether Moveable Total Developed Surface sq. feet
 umps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
 umps worked from the Main Engines, No. Diameter Stroke Can one be overhauled while the other is at work
 No. and size 4 - 10x22-50,000lbs/hr Pumps connected to the No. and size 2-10x10-75tns/hr.
 How driven Steam Main Bilge Line How driven Steam
 Pumps, No. and size 2-14x12-200tns/hr Lubricating Oil Pumps, including Spare Pump, No. and size -
 independent means arranged for circulating water through the Oil Cooler - Suctions, connected to both Main Bilge Pumps and Auxiliary
 mps; — In Engine and Boiler Room 2 - 3" on each side of each of E.R. and B.R.
 Roof - In Holds, &c. 3" dia suction from F.P. tanks (4). No. 1 Hold
 s (2). No. 2 Hold spaces (4). No. 3 Hold spaces (2). and one from each shaft space.
 ater Circulating Pump Direct Bilge Suctions, No. and size 1p. & ls. 8" Independent Power Pump Direct Suctions to the Engine Room Bilges,
 size 1 each p. & s. each 3" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes yes
 1 each side p. & s. each 8" (ballast pump)
 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
 ea Connections fitted direct on the skin of the ship Are they fitted with Valves or Cocks
 faced sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Overboard Discharges above or below the deep water line
 each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate
 es pass through the bunkers How are they protected
 es pass through the deep tanks Nwc. Rpt. No. 102953 Have they been tested as per Rule
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 ingement 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
 nt to another yes Is the Shaft Tunnel watertight yes Is it fitted with a watertight door Access from deck.

BOILERS, & Co. — (Letter for record) Total Heating Surface of Boilers 10650 sq. ft.
 Boilers are fitted with Forced Draft closed stokehold Which Boilers are fitted with Superheaters -
 Description of Boilers 2-WTB-3 drum type Working Pressure 225 lbs
 REPORT ON MAIN BOILERS NOW FORWARDED? Liverpool Report No. 122502

DONKEY BOILER FITTED? - If so, is a report now forwarded? -
 nkey boiler be used for domestic purposes only -
 S. Are approved plans forwarded herewith for Shafting Main Boilers Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 rs General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR.

are gear required by the Rules been supplied yes
 rincipal additional spare gear supplied -

The foregoing is a correct description.

Manufacturer.



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005453-005461-0206

During progress of work in shops - -
 Dates of Survey while building
 During erection on board vessel - - -
 Total No. of visits

1947) Aug. 28, Oct. 7, Dec. 4, (1948) Jan. 21, Mar. 3, 10, 19, May 21, June 9,
 July 20, Sept. 15, Nov. 10, 22, (1949) Jan. 5, 14, Feb. 11, Mar. 8, Apr. 20, May 16, 20,
 June 3, 6, 17. 24

Dates of Examination of principal parts—Cylinders	Sld.	Slides	Sld.	Covers	Sld.
Pistons	Sld.	Piston Rods	Sld.	Connecting rods	Sld.
Crank shaft	Sld.	Thrust shaft	Nwc.	Intermediate shafts	Nwc.
Tube shaft	-	Screw shaft	Nwc.	Propeller	Nwc.
Stern tube	Nwc.	Engine and boiler seatings	Nwc.	Engines holding down bolts	5/1/49
Completion of fitting sea connections	Nwc.				
Completion of pumping arrangements	20/5/49	Boilers fixed	11/2/49	Engines tried under steam	6/6/49
Main boiler safety valves adjusted	6/6/49	Thickness of adjusting washers	all 3/4"		
Crank shaft material	Identification Mark		Thrust shaft material	Identification Mark	
Intermediate shafts, material	Identification Marks		Tube shaft, material	Identification Mark	
Screw shaft, material	Identification Mark		Steam Pipes, material	Steel	Test pressure 6751bs
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	no	✓	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			If so, state name of vessel	Transport Ferry Type.	

General Remarks (State quality of workmanship, opinions as to class, &c.)

This machinery has been installed under Special Survey in accordance with the approved plans and the Society's Rules. The materials and workmanship are good. These engines and boilers are eligible, in my opinion, to be classed with this Society with the Notation of LMC 6,49 and Shafts OG, 2 WTB 225lbs and fitted for oil fuel 6.49 F.P above 150°F, when the plan of pumping arrangements has been approved.

The vessel was placed in drydock in May 1949, the sea cocks and valves opened out and examined with their fastenings and the screwshafts examined, drawn in, with stern bushes and oil gland

Mr Caldwell stated on 2/12/49 that the machinery & boilers were opened out & examined & found in good order on this occasion.

Eux
 2/12/49

The amount of Entry Fee ... £	:	:	When applied for,
Special ...	£	88.000,00:	25/6/49.
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	650,00:	:	19.

Committee's Minute

Assigned

Deferred

M. Caldwell
 Engineer Surveyor to Lloyd's Register of Shipping.



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