

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

AUG 19 1940

of writing Report July 10th 1940 When handed in at Local Office July 15th 1940 Port of NEW YORK
 in Survey held at New Jersey & Brooklyn, New York Date, First Survey January 29th 1940 Last Survey June 27th 1940
 on the S.S. VALIENTE ex. OBRIEN BROTHERS (Number of Visits 14) Tons { Gross 5967 Net 3741
 Built at Portsmouth, N.H. By whom built Atlantic Corporation Yard No. 6 When built 1920
 Engines made at Portsmouth, N.H. By whom made Atlantic Corporation Engine No. 6 When made 1920
 Boilers made at Oil City, Pennsylvania By whom made Atlantic Corporation Boiler No. 1337, 1338 When made 1920
 Registered Horse Power ✓ Owners Compania Diana De Vapores S.A. Port belonging to Panama
 Net Horse Power as per Rule 603 Is Refrigerating Machinery fitted for cargo purposes NO. Is Electric Light fitted yes
 Use for which Vessel is intended Freighter

ENGINES, &c.—Description of Engines Triple Expansion Revs. per minute 80
 No. of Cylinders 24 1/2, 4 1/2, 72 Length of Stroke 48" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 13.9" Crank pin dia. 14 1/4" Crank webs Mid. length breadth 28 5/8" Thickness parallel to axis 8 1/2"
 as fitted 14" Mid. length thickness 9 1/2" shrunk Thickness around eye-hole 6" & 7 3/4"
 Intermediate Shafts, diameter as per Rule 13 1/4" Thrust shaft, diameter at collars as per Rule 13.9
 as fitted 13 1/4" as fitted 14"
 Propeller Shafts, diameter as per Rule ✓ Screw Shaft, diameter as per Rule 14.65 Is the tube shaft fitted with a continuous liner { yes
 as fitted ✓ as fitted 15.25 Is the screw shaft fitted with a continuous liner { yes
 Bronze Liners, thickness in way of bushes as per Rule 23/32" Thickness between bushes as per Rule 1/2" Is the after end of the liner made watertight in the
 as fitted 3/4" as fitted 1/2" yes
 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ✓
 Is an approved Oil Gland or other appliance fitted at the after end of the tube ✓
 Length of Bearing in Stern Bush next to and supporting propeller 5'-0"
 Propeller, dia. 17'-0" Pitch 14'-9" No. of Blades 4 Material cast iron blades, whether Moveable yes Total Developed Surface 94 sq. feet
 Main Engines, No. NONE Diameter — Stroke — Can one be overhauled while the other is at work —
 Auxiliary Engines, No. 2 Diameter 5" Stroke 24" Can one be overhauled while the other is at work yes
 Pumps connected to the Main Bilge Line { No. and size 2 main engine ram pumps 5" dia. 24" stroke, & 2 independent
 How driven steam How driven steam pumps (10" x 12" x 12") & (12" x 8 1/2" x 12")
 Lubricating Oil Pumps, including Spare Pump, No. and size NONE
 Two independent means arranged for circulating water through the Oil Cooler — Suctions, connected to both Main Bilge Pumps and Auxiliary
 Pumps;—In Engine and Boiler Room 5 at 3 1/2" diameter.
 In Holds, &c. 2 sections in each hold 3 1/2" dia.

Water Circulating Pump Direct Bilge Suctions, No. and size 1, 10" dia. Independent Power Pump Direct Suctions to the Engine Room Bilges,
 and size one 3 1/2" dia. starboard side. Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes yes
 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
 all Sea Connections fitted direct on the skin of the ship yes Are they fitted with Valves or Cocks valves except bilge flow down cock.
 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
 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
 Pipes pass through the bunkers sanitary pipes How are they protected coal bunkers not unused, Vessel oil find
 pipes pass through the deep tanks NONE (PIPE TUNNEL FITTED) Have they been tested as per Rule yes
 all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 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 Cylinders top grating in engine room

IN BOILERS, &c.— (Letter for record INDUCED) Total Heating Surface of Boilers 9150 sq
 which Boilers are fitted with Forced Draft all Which Boilers are fitted with Superheaters NONE
 and Description of Boilers 3 water tube, Foster Marine Type Working Pressure 215 lbs.

A REPORT ON MAIN BOILERS NOW FORWARDED? yes

A DONKEY BOILER FITTED? NO

If so, is a report now forwarded? —

the donkey boiler be used for domestic purposes only —

ANS. Are approved plans forwarded herewith for Shafting yes Main Boilers yes Auxiliary Boilers NONE Donkey Boilers NONE
 (If not state date of approval)
 heaters ✓ General Pumping Arrangements yes Oil fuel Burning Piping Arrangements yes

SPARE GEAR.

the spare gear required by the Rules been supplied yes
 the principal additional spare gear supplied One screw shaft, one HP & one I.P. valve rod.

The foregoing is a correct description.

Manufacturer.



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Lloyd's Register Foundation

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Dates of Survey while building	During progress of work in shops	✓				
	During erection on board vessel	✓				
	Total No. of visits	✓				
Dates of Examination of principal parts—Cylinders		April 18 th & 29 th	Slides	April 17 th	Covers	April 17 th
Pistons	April 18 th & 29 th	Piston Rods	April 18 th & 29 th	Connecting rods	April 29 th	
Crank shaft	April 10 th	Thrust shaft	April 10 th	Intermediate shafts	April 10 th	
Tube shaft	✓	Screw shaft	January 30 th	Propeller	January 30 th	
Stern tube	January 30 th	Engine and boiler seatings	May 29 th	Engines holding down bolts	May 29 th	
Completion of fitting sea connections	✓	Boilers fixed	✓	Engines tried under steam	June 25 th	
Completion of pumping arrangements	✓	Thickness of adjusting washers	✓	Locknuts fitted	✓	
Main boiler safety valves adjusted	✓	Identification Mark	✓	Thrust shaft material	Identification Mark	✓
Crank shaft material	✓	Identification Marks	✓	Tube shaft, material	Identification Mark	✓
Intermediate shafts, material	✓	Identification Mark	✓	Steam Pipes, material	✓	Date of Test
Screw shaft, material	✓	✓	✓	Test pressure	✓	✓
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	Yes	If so, have the requirements of the Rules been complied with	Yes			
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	✓			

General Remarks (State quality of workmanship, opinions as to class, &c.) The machinery of this vessel was not built under Special Survey, but it has been examined and found to comply with the rules, the workmanship and the material as far as can be seen are good. The machinery has been satisfactorily tried and is now in good & safe working condition and eligible in our opinion to receive the notation LMC 6.40 (induced draught) in the Register Book and here record of T.S. CL. 1.40

The amount of Entry Fee ... £25 :
Special LMC ... £390 :
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ :
When applied for, JUL 10 1940
When received, 31.7.1940

Committee's Minute

Assigned LMC 6.40 T.S. CL 1.40

Rpt. 9a.

Port of

New York.

Continuation of Report No. 40295 dated July 10th 1940 on the S/S VALIENTE ex O'BRIEN BROTHERS.

AUG 19 1940

1940 on the

Electric generators opened up cylinders pistons, valves, rods, crossheads, connecting rods, crankpins, crankshafts journals & brasses, commutators, armatures brushes & brush holders examined & meggers tested & found in good order.

Electrical installation, switches, cables, fuses, fittings & insulation, examined, meggers tested & found or placed in good order.

All boilers examined internally & externally with mountings & steam pipes and found or placed in good order.

All steam pipes tested to 430 lb² hydrostatic pressure & proven tight.

All boiler safety valves adjusted under steam to 215 lb² pressure.

Oil fuel installation & equipment, tanks, burners, pipes, pumps & fire extinguishing apparatus, valves & extension rods examined & tested under working conditions & found in good order.

Wear & tear repairs Steering engine cylinder block renewed. Stem bush renewed.

I.P. bottom end brasses reinstalled. Main circulating pump impeller renewed.

Auxiliary circulating pump for auxiliary condenser renewed.

auxiliary condenser retubed. Main condenser repacked.

General service pump liners renewed. Other minor repairs effected.

J.A.Y.



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