

REPORT ON MACHINERY

No. 18776
FEB. AUG. 4 1920

Received at London Office

4.

Writing Report 30th June 1920 When handed in at Local Office 19 Port of NEW YORK
Survey held at Brooklyn Staten Island Date, First Survey 1920 Last Survey 19
Book. on the S.S. "MANUEL RIONDA" TEBO YACHT BASIN HULL 14. (Number of Visits 14)
Owner V. GUELPA Built at Brooklyn L.I. By whom built Todd Shipyard Corporation When built 1920
Engines made at White Fish Plant By whom made Todd Shipyard Corp. White Fish Plant when made 1920
Machinery made at Maryland Harbor, S.I. By whom made Staten Island S.B. Co when made 1919
Registered Horse Power _____ Owners Sinclair Oil Co Port belonging to New York
Horse Power as per Section 28 156 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

MAKERS, &c.—Description of Engines Triples Exp. No. of Cylinders 3 No. of Cranks 3
No. of Cylinders 16" x 25" x 42" Length of Stroke 30" Revs. per minute 110 Dia. of Screw shaft 8.52" Material of screw shaft Steel
The screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight
The propeller boss Yes If the liner is in more than one length are the joints burned 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 Sigle Fit If two
are fitted, is the shaft lapped or protected between the liners _____ Length of stern bush 8'-9 3/8"
Dia. of Tunnel shaft 7.97" Dia. of Crank shaft journals 8.36" Dia. of Crank pin 9" Size of Crank webs 11 1/2" x 7" Dia. of thrust shaft under
bars 8 1/2" Dia. of screw 9'-8" Pitch of Screw 10'-0" No. of Blades 4 State whether moveable No Total surface 29.55 sq ft
No. of Feed pumps Two Diameter of ditto 6" Stroke 12" Can one be overhauled while the other is at work Yes
No. of Bilge pumps Two Diameter of ditto 3 1/2" Stroke 15" Can one be overhauled while the other is at work Yes
No. of Donkey Engines Three Sizes of Pumps 12 x 8 1/2 x 12 7 1/2 x 5 x 6, 6 x 5 1/4 x 6 No. and size of Suctions connected to both Bilge and Donkey pumps
Engine Room Three 3" In Holds, &c. No. 3"
Bilge Injections 1 sizes 5" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 3 1/4"
All the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible _____
All connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valves & Cocks
Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Yes Are the Discharge Pipes 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
How are they protected _____
All Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes
Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes
Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door _____ worked from _____

MAKERS, &c.—(Letter for record 7) Manufacturers of Steel Lukens
Heating Surface of Boilers 2476 Is Forced Draft fitted Yes No. and Description of Boilers 2 Single End cylindrical
Working Pressure 180 Tested by hydraulic pressure to 270 Date of test 12/12/1919 No. of Certificate 314
Can each boiler be worked separately Yes Area of fire grate in each boiler Old Burner No. and Description of Safety Valves to
each boiler Two, Duplex Pop Area of each valve 4.91" Pressure to which they are adjusted 182 lbs Are they fitted with easing gear Yes
Least distance between boilers or uptakes and bunkers or woodwork 3'-0" Mean dia. of boilers 10'-6" Length 11'-0" Material of shell plates Steel
Thickness 1" Range of tensile strength 60,000 lbs/mm Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Double
Seams Treble D.B.S. Diameter of rivet holes in long. seams 13/16" Pitch of rivets 8 1/2" Lap of plates or width of butt straps 15 1/2"
Advantages of strength of longitudinal joint _____ Working pressure of shell by rules 201 Size of manhole in shell 19" x 15"
Compensating ring 15" x 1" No. and Description of Furnaces in each boiler 2 MORISON Material Steel Outside diameter 43"
No. of plain part _____ Thickness of plates _____ Description of longitudinal joint weld No. of strengthening rings 1
Working pressure of furnace by the rules 190 Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 9/16" Top 9/16" Bottom 3/4"
No. of stays to ditto: Sides 7" x 6 1/4" Back 7" x 6 1/4" Top 7" x 7" If stays are fitted with nuts or riveted heads riveted Working pressure by rules 184
Material of stays Iron Area at smallest part 1.48 sq ft Area supported by each stay 49 Working pressure by rules 181 End plates in steam space:
Material Steel Thickness 1/16" + 1/2" Pitch of stays 14" x 14" How are stays secured D. Nuts Working pressure by rules 200 Material of stays Steel
Area at smallest part 3.98 sq ft Area supported by each stay 14" x 14" Working pressure by rules 211 Material of Front plates at bottom Steel
Thickness 1/16" Material of Lower back plate Steel Thickness 1/16" Greatest pitch of stays 13 1/2" x 7" Working pressure of plate by rules 195
Diameter of tubes 3" Pitch of tubes 4" x 4 1/8" Material of tube plates Steel Thickness: Front 1/16" Back 5/8" Mean pitch of stays 8 1/8"
Pitch across wide water spaces 13" Working pressures by rules 186 Girders to Chamber tops: Material Steel Depth and
thickness of girder at centre 7 1/2" x 1 1/2" Length as per rule 28" Distance apart 7" Number and pitch of stays in each 3 @ 7"
Working pressure by rules 208 Steam dome: description of joint to shell None % of strength of joint _____
Diameter _____ Thickness of shell plates _____ Material _____ Description of longitudinal joint _____ Diam. of rivet holes _____
Pitch of rivets _____ Working pressure of shell by rules _____ Crown plates _____ Thickness _____ How stayed _____

SUPERHEATER. Type _____ Date of Approval of Plan _____ Tested by Hydraulic Pressure to _____
Date of Test _____ Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler _____
Diameter of Safety Valve _____ Pressure to which each is adjusted _____ Is Easing Gear fitted _____

007438-007946-00050
Lloyd's Register

IS A DONKEY BOILER FITTED? *None*

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— *Two Connecting Rods, Top Bottom End both ends, 2 Main Bearing Bolts, One set of coupling bolts, Spare Laid Shaft, Propeller, 1 Excavator, 3 sets piston rings, set of valves for bilge of full pump, Bolt nuts + assorted iron of various sizes*

The foregoing is a correct description,

Staten Island Shipbuilding Co
per A. C. Leavitt

James S. Milne

Manufacturer.

MANUFACTURERS OF
BOILERS ONLY.

Dates of Survey while building
During progress of work in shops --- *1919 Nov 20 Dec 9 11 17 23 1920 Jan 16 30 Feb 17 Mar 12 13 Apr 13 20 21*
During erection on board vessel --- *June 13 14 July 2*
Total No. of visits *17*

Is the approved plan of main boiler forwarded herewith *Yes*

Is the approved plan of donkey boiler forwarded herewith *Yes*

Dates of Examination of principal parts—Cylinders *12-12-19* Slides *16-12-19* Covers *16-12-19* Pistons *16-12-19* Rods *27-1-20*
Connecting rods *27-1-20* Crank shaft *17-12-19* Thrust shaft *27-1-20* Tunnel shafts *✓* Screw shaft *27-1-20* Propeller *27-1-20*
Stern tube *21-2-20* Steam pipes tested *11-6-20* Engine and boiler seatings *28-4-20* Engines holding down bolts *6-5-20*
Completion of pumping arrangements *13-6-20* Boilers fixed *28-4-20* Engines tried under steam *19-6-20*
Completion of fitting sea connections *28-5-20* Stern tube *27-5-20* Screw shaft and propeller *28-5-20*
Main boiler safety valves adjusted *28-6-20* Thickness of adjusting washers *None*

Material of Crank shaft *Steel* Identification Mark on Do. *R.S* Material of Thrust shaft *Steel* Identification Mark on Do. *R.S 254*

Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Steel* Identification Marks on Do. *R.S*

Material of Steam Pipes *Steel* Test pressure *360 lb sq"*

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 Section 49 of the Rules been complied with *Yes*

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 has been built under special survey in accordance with approved plans. Workmanship and material are good. The Machinery has been tested under steam and found satisfactory. This vessel's machinery is now in good efficient condition reliable for service + L.M.C. 6-20, FITTED FOR OIL FUEL 6-20, F.P. above 150°F.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 7-20 Fitted for oil fuel 7-20 F.P. above 150°F.

Roll 11/8/20 JRR

The amount of Entry Fee ... £ 15 : : When applied for, 14/7 19 20
Special ... £ 117 : :
Donkey Boiler Fee ... £ : : When received, 30/8/20
Travelling Expenses (if any) £ : :

John P. Robson & Alex. Lawrence
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York JUL 20 1920

Assigned. + dmb 7.20

MACHINERY CERTIFICATE
UNITED STATES
A-4-8-20

