

REPORT ON MACHINERY.

No. 19674

Received at London Office

TUE. 10 JAN 1921

Date of writing Report 2nd Dec 1920 When handed in at Local Office 15th Dec 1920 Port of NEW YORK

No. in Survey held at Brooklyn NY Date, First Survey Last Survey 3rd Dec 1920

Reg. Book. on the S.S. "ORMES" (Number of Visits)

Master D. Fitzpatrick Built at Brooklyn NY By whom built Todd Shipyards Corp Tons Gross 1354.57

Engines made at New York By whom made White Fuel Oil Co (Todd Shipyards) when made 1920 Net 796.16

Boilers made at New York By whom made Standard S.B. Corp when made 1920

Registered Horse Power 245 Owners Donald S.S. Co Port belonging to Montreal

Nom. Horse Power as per Section 28 245 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

ENGINES, &c.—Description of Engines Triple Expansion Reciprocating No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 19" x 32" x 52" Length of Stroke 36" Revs. per minute 100 Dia. of Screw shaft as per rule 12 1/4 Material of screw shaft Steel

Is 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

in 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 Yes If two

liners are fitted, is the shaft lapped or protected between the liners Length of stern bush 4'-3"

Dia. of Tunnel shaft as per rule 10" 9.64 Dia. of Crank shaft journals as per rule 10 3/4 10.12 Dia. of Crank pin 11 1/4 Size of Crank webs 6'23'x42" Dia. of thrust shaft under

collars 10 3/4 Dia. of screw 12'-6" Pitch of Screw 14'-6" No. of Blades 4 State whether moveable No Total surface 54.56 sq ft

No. of Feed pumps 2 Diameter of ditto 10'x6" Stroke 12" Can one be overhauled while the other is at work Yes

No. of Bilge pumps 1 Diameter of ditto 4" Stroke 12" Can one be overhauled while the other is at work Yes

No. of Donkey Engines Three Sizes of Pumps (7 1/2 x 8 1/2 x 10) (10 x 6 x 10) No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 2 @ 3" Dia, One 5" Dia In Holds, &c. 2 @ 3" Line hold, 2 @ 3" after

hold 1-3" Low Pump, 1-3" After Pump, 1-3" After Well.

No. of Bilge Injections 1 sizes 6" Connected to condenser, or to circulating pump Pump Is a separate Donkey Suction fitted in Engine room & size Yes 5" Dia

Are 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 Yes

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Valve 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

What pipes are carried through the bunkers None How are they protected

Are 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

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Engine Room Exp Platform

BOILERS, &c.—(Letter for record S) Manufacturers of Steel Lukens

Total Heating Surface of Boilers 3780 Is Forced Draft fitted Yes No. and Description of Boilers Two Vertical

Working Pressure 180 lb Tested by hydraulic pressure to 270 lb Date of test 19th Feb 1920 No. of Certificate 355

Can each boiler be worked separately Yes Area of fire grate in each boiler 100 sq ft No. and Description of Safety Valves to

each boiler 2 Spring loaded Area of each valve 7.018" Pressure to which they are adjusted 180 lb Are they fitted with easing gear Yes

Smallest distance between boilers or uptakes and bunkers or woodwork Yes Mean dia. of boilers 13'-0" Length 11'-6" Material of shell plates Steel

Thickness 1 1/4" Range of tensile strength 60000 lb Are the shell plates welded or flanged No Descrip. of riveting: cir. seams DLAP

long. seams TREBLE DBS Diameter of rivet holes in long. seams 1 1/16 Pitch of rivets 8" Lap of plates or width of butt straps 19 3/4

Per centages of strength of longitudinal joint rivets 89 plate 83.6 Working pressure of shell by rules 184 lb Size of manhole in shell 23'x9'-16'x12" DR

Size of compensating ring 11'x1 1/4" No. and Description of Furnaces in each boiler 3 MORRISON Material Steel Outside diameter 44

Length of plain part top 1 bottom 1 Thickness of plates crown 9/16 Description of longitudinal joint WELD No. of strengthening rings None

Working pressure of furnace by the rules 198 Combustion chamber plates: Material Steel Thickness: Sides 9/32 Back 9/32 Top 9/32 Bottom 13/16

Pitch of stays to ditto: Sides 7 1/2 x 16 1/2 Back 7 1/2 x 16 1/2 Top 7 3/4 x 17 1/2 If stays are fitted with nuts or riveted heads Riveted Working pressure by rules 183

Material of stays Steel Area at smallest part 1.48 Area supported by each stay 49 Working pressure by rules 243 End plates in steam space:

Material Steel Thickness 1" Pitch of stays 16'x15" How are stays secured D. Nuts Working pressure by rules 192 Material of stays Steel

Area at smallest part 4.91 Area supported by each stay 240 Working pressure by rules 218 Material of Front plates at bottom Steel

Thickness 3/4 Material of Lower back plate Steel Thickness 3/4 x 1/16 Greatest pitch of stays 13 1/2 x 7 1/2 Working pressure of plate by rules 258

Diameter of tubes 2 1/2" Pitch of tubes 3 3/8" Material of tube plates Steel Thickness: Front 3/4 Back 3/4 Mean pitch of stays 9 1/8"

Pitch across wide water spaces 13" Working pressures by rules 254 Girders to Chamber tops: Material Steel Depth and

thickness of girder at centre 10 1/2 x 1 3/8 Length as per rule 32" Distance apart 7 3/4" Number and pitch of stays in each 3 @ 7 1/2"

Working pressure by rules 253 Steam dome: description of joint to shell Yes % 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

If not, state whether, and when, one will be sent

Is a Report also sent on the Hull of the Ship?

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IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

✓

SPARE GEAR.

State the articles supplied:—

Two Lap End Bolt Nuts. Two Bottom End Bolt Nuts. Two Main Bearing Bolt Nuts. Two sets of Coupling Bolt. Two sets feed water pump valves and spindles. Complete set of piston pump spindles. A quantity of bolt nuts and iron of various sizes.

The foregoing is a correct description,

TEBO YACHT BASIN CO.

James S. Melue

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 24/6/20, 3/7/20, 13/7/20, 16/7/20, 31/7/20, 23/8/20, 16/10/20, 18/10/20, 19/10/20, 23/10/20, 3/11/20, 19/11/20, 22/11/20, 27/11/20, 3/12/20
During erection on board vessel --
Total No. of visits

Is the approved plan of main boiler forwarded herewith

No

Dates of Examination of principal parts—Cylinders 24/6/20 Slides 25/8/20 Covers 23/8/20 Pistons 23/8/20 Rods 13-7-20
Connecting rods 13-7-20 Crank shaft 13-7-20 Thrust shaft 24/6/20 Tunnel shafts 13-7-20 Screw shaft 13-7-20 Propeller 16/7/1920
Stern tube 13-7-20 Steam pipes tested 22-10-20 Engine and boiler seatings 16-8-20 Engines holding down bolts 16-8-20
Completion of pumping arrangements 3-10-20 Boilers fixed 22-10-20 Engines tried under steam 25-10-20
Completion of fitting sea connections 16/7/1920 Stern tube 16/7/1920 Screw shaft and propeller 19/7/1920
Main boiler safety valves adjusted 23-10-20 Thickness of adjusting washers Lock Nut.
Material of Crank shaft Steel Identification Mark on Do. 4437CH Material of Thrust shaft Steel Identification Mark on Do. 44696
Material of Tunnel shafts Steel Identification Marks on Do. 21629L Material of Screw shafts Steel Identification Marks on Do. 21504R
Material of Steam Pipes Solid Drawn Copper Test pressure 360 lb per sq in
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 No If so, state name of vessel

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

The Engines Boilers of this Vessel, have been constructed under special Survey, and in accordance with the rules approved plans, they have now been efficiently fitted on board, tested under steam and found satisfactory. The Case is respectfully submitted for a notation of + LMC 12-20. Letter for oil fuel 12-20 F.P. above 150°F. + Electric Light in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. + LMC. 12.20 F.D

FITTED FOR OIL FUEL 12.20 FP ABOVE 150°F.

Recd.

21/1/21

9/2/21

The amount of Entry Fee ... \$15.00
Special ... \$162.00
Donkey Boiler Fee ... £
Travelling Expenses (if any) £

When applied for.

6/1/1921

When received.

11/1/21

MACHINERY CERT
WRITTEN 3/2/21
dated 18/1/21

John Robeson
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York JAN - 4 1921

Assigned

+ LMC. 12.20



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