

REPORT ON MACHINERY.

No. 2814

REC'D NEW YORK April 25-1918

Received at London Office

TUE. 21 MAY. 1918

Writing Report on 2nd April 1918 When handed in at Local Office 2nd April 1918 Port of Philadelphia, Pa.
 Survey held at Camden N. J. Date, First Survey 18th Jan 1917 Last Survey 24th March 1918
 Book. on the S. S. "Pewee Point" (Number of Visits 48)

By R. M. French Built at Camden By whom built New York P. B. Corp Tons } Gross 5431
 } Net 3373
 When built 1918

Machinery made at Camden By whom made New York P. B. Corp (No 1814) when made 1918
 Machinery made at Do By whom made Do when made 1918

Registered Horse Power Owners United States of America Port belonging to Camden
 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Horse Power as per Section 28 463 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

GINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
 of Cylinders 25" 41 1/2" 70" Length of Stroke 46 Revs. per minute 80 Dia. of Screw shaft 14 7/8" 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 Yes If two

are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 5'-3"
 of Tunnel shaft as per rule 12-97 12-89 Dia. of Crank shaft journals as per rule 13-14 Dia. of Crank pin 14" Size of Crank webs 26" Dia. of thrust shaft under
 as fitted 13-14

ars 13 5/8" Dia. of screw 18-6" Pitch of Screw 15-2" No. of Blades 4 State whether moveable Yes Total surface 91 sq ft
 of Feed pumps 2 Diameter of ditto 4" Stroke 20" Can one be overhauled while the other is at work Yes
 of Bilge pumps 2 Diameter of ditto 4 1/2" Stroke 20" Can one be overhauled while the other is at work Yes

of Donkey Engines 6 Sizes of Pumps see over page No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room & Blk Rm: 6-3 1/2": 1-2" in tunnel In Holds, &c. 2-3 1/2" in each hold
 1-3 1/2" tunnel well.

of Bilge Injections 1 sizes 10" Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size Yes-3 1/2"
 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

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

That pipes are carried through the bunkers none How are they protected Yes
 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 top platform
 MILERS, &c.—(Letter for record (r)) Manufacturers of Steel Worth Bros.

Total Heating Surface of Boilers 6624 sq ft Is Forced Draft fitted Yes No. and Description of Boilers 3 Single Ended
 Working Pressure 195 lbs Tested by hydraulic pressure to 292 lbs Date of test 24-10-17 No. of Certificate 151

Can each boiler be worked separately Yes Area of fire grate in each boiler 51-66 sq ft No. and Description of Safety Valves to
 each boiler double spring loaded Area of each valve 7-06 Pressure to which they are adjusted 190 lbs Are they fitted with easing gear Yes
 Smallest distance between boilers or uptakes and bunkers or woodwork ship's side Mean dia. of boilers 13-10 Length 10-6 1/2 Material of shell plates Steel

Thickness 1 1/16" Range of tensile strength 28/32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams D. Riv.
 long. seams T.R.O.B.S. Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 8 3/4" Lap of plates or width of butt straps 20 1/4"

Per centages of strength of longitudinal joint rivets 96-1 plate 83-5 Working pressure of shell by rules 208 Size of manhole in shell 16" x 12"
 Size of compensating ring 37 x 32 x 1 1/16 No. and Description of Furnaces in each boiler 3 corrugated Material steel Outside diameter 3'-8 1/8"

Length of plain part top 9 bottom 16 Thickness of plates crown 9 bottom 16 Description of longitudinal joint weld No. of strengthening rings
 Working pressure of furnace by the rules 199 Combustion chamber plates: Material steel Thickness: Sides 19/32 Back 19/32 Top 19/32 Bottom 7/8"

Pitch of stays to ditto: Sides 6 3/8 x 6 1/4 Back 7 x 6 1/2 Top 7 1/2 x 6 1/4 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 2147
 Material of stays Iron Area at smallest part 1-694 Area supported by each stay 48-75 Working pressure by rules 208 End plates in steam space:
 Material steel Thickness 1 1/16 Pitch of stays 17 x 17 How are stays secured D. nuts Working pressure by rules 267 Material of stays steel

Area at smallest part 6-49 Area supported by each stay 289 Working pressure by rules 233 Material of Front plates at bottom steel
 Thickness 1 1/16 Material of Lower back plate steel Thickness 1 1/16 Greatest pitch of stays 14 x 7 Working pressure of plate by rules 318
 Diameter of tubes 2 1/2 Pitch of tubes 3 3/4 x 3 1/2 Material of tube plates steel Thickness: Front 1 1/16 Back 3/4 Mean pitch of stays heated

Pitch across wide water spaces 13 Working pressures by rules 239 Girders to Chamber tops: Material steel Depth and
 thickness of girder at centre 8 1/4 x 2 @ 8 Length as per rule 2-7 1/2 Distance apart 7 1/2 Number and pitch of stays in each 4 @ 6 1/4"

Working pressure by rules 236 Steam dome: description of joint to shell
 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
 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Date of Test Is Easing Gear fitted
 Diameter of Safety Valve Pressure to which each is adjusted

Water Capacity
 Tons
 220
 201

Forecastle 3-0
 is to be given as

23.24 Nov 21
 28.58.30

of Visits 68

Lloyd's Register
 Foundation

IS A DONKEY BOILER FITTED? none If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:—2 connecting rod top end bolts & nuts: 2 connecting rod bottom end bolts & nuts: 2 main bearing bolts: 1 set of coupling bolts: 1 set of feed & bilge pump valves: a quantity of assorted bolts & nuts: iron of various sizes: 1 tail shaft: 1 propeller blade: 25 condenser tubes: one set of spare brasses for valve stems: 1 set of air pump valves: 1 half set of follower bolts for each size piston.

The foregoing is a correct description,

New York Shipbuilding Corp. P.M. Young Manufacturer.

Dates of Survey while building: During progress of work in shops -- 1917 Jan 18. 26. 27. Mar 12. 20. 28. Apr 12. 19. May 7. 16. 23. 31. June 18. July 3. 13. Aug 6. 16. 22. 27 up to Jan 26 1918
During erection on board vessel --- 1918 Feb 14. 22. 27. Mar 12. 15. 25. 29.
Total No. of visits 48

Is the approved plan of main boiler forwarded herewith yes
" " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders 27.8.17 Slides 13.9.17 Covers 1.10.17 Pistons 24.12.17 Rods 24.12.17
Connecting rods 3.7.17 Crank shaft 13.9.17 Thrust shaft 3.7.17 Tunnel shafts 31.10.17 Screw shaft 13.9.17 Propeller 26.11.17
Stern tube 28.11.17 Steam pipes tested 26.2.18 Engine and boiler seatings 22.1.18 Engines holding down bolts 27.2.18
Completion of pumping arrangements 29.3.18 Boilers fixed 14.11.17 Engines tried under steam 25.3.18
Completion of fitting sea connections 26.1.18 Stern tube 22.1.18 Screw shaft and propeller 22.1.18
Main boiler safety valves adjusted 25.3.18 Thickness of adjusting washers lock into fitted
Material of Crank shaft Steel Identification Mark on Do. 184 Material of Thrust shaft Steel Identification Mark on Do. 184
Material of Tunnel shafts Steel Identification Marks on Do. 184 Material of Screw shafts Steel Identification Marks on Do. 184
Material of Steam Pipes Copper Test pressure 400 lbs per sq in

Is an installation fitted for burning oil fuel no Is the flash point of the oil to be used over 150°F. ✓

Have the requirements of Section 49 of the Rules been complied with ✓

Is this machinery duplicate of a previous case yes If so, state name of vessel S.S. "Fairmont"

General Remarks (State quality of workmanship, opinions as to class, &c. Donkey Engines: 12" x 8 1/2" x 18": 12" x 8 1/2" x 18": 10" x 12" x 12" x 12": 6" x 7" x 8": 12" x 14" x 12": 4 1/2" x 3 1/4" x 4")

The machinery of this vessel has been built under special survey: the material and workmanship being good & proved satisfactory on steam trial.
It is submitted that this vessel be eligible for a record of + L.M.C. 3.18 in the Register Book.

It is submitted that this vessel is eligible for THE RECORD. + L.M.C 3.18. F.D. C.L.

AWD 27/5/18 J.R.R.

The amount of Entry Fee ... \$ 15 : 00 :
Special ... \$ 215 : 75 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) \$ 5 : 00 :
When applied for, 19
When received, 19

A. T. Thomas
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute New York APR 30 1918

Assigned + L.M.C. 3.18
elec. light

MACHINERY CERTIFICATE
WRITTEN 21/5/18