

REPORT ON MACHINERY.

No. 3014

REC'D. NEW YORK Nov. 23-1918

Received at London Office

Writing Report Nov 8 1918 When handed in at Local Office Nov 11 1918 Port of Philadelphia Pa
 Survey held at Chester Pa Date, First Survey April 25 1918 Last Survey Oct 30 1918
 on the S.S. "Frederick R. Kellogg" (Number of Vials)

Built at Chester Pa By whom built Sum Shipbuilding Co Tons 1918
 made at Chester Pa By whom made Sum Shipbuilding Co when made 1918
 made at Chester Pa By whom made Sum Shipbuilding Co when made 1918
 red Horse Power Owners Pan American Petroleum & Transport Co Port belonging to

Horse Power as per Section 28 545 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

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

Cylinders 27" - 45" - 46" Length of Stroke 51" Revs. per minute 70 Dia. of Screw shaft as per rule 15.09 Material of Nichol
as fitted 15 screw shaft Steel

screw shaft fitted with a continuous liner the whole length of the stern tube Is the after end of the liner made water tight
 propeller boss Yes If the liner is in more than one length are the joints burned If the liner does not fit tightly at the part

the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive If two
 are fitted, is the shaft lapped or protected between the liners Length of stern bush

Tunnel shaft as per rule 14.34 Dia. of Crank shaft journals as per rule 14.66 14.71 Dia. of Crank pin 15.5" Size of Crank webs 10 3/4 x 16" Dia. of thrust shaft under
as fitted 14.34 Dia. of screw 16.3 Pitch of Screw 14.34 No. of Blades 4 State whether moveable yes Total surface 88

Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work
 Donkey Engines Sizes of Pumps No. and size of Suctions connected to both Bilge and Donkey pumps
 gine Room In Holds, &c.

Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size
 the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
 connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks
 ey fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates Are the Discharge Pipes above or below the deep water line
 ey 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
 pipes are carried through the bunkers How are they protected

l Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times
 e Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

Screw Shaft Tunnel watertight Is it fitted with a watertight door Yes worked from

ERS, &c.—(Letter for record (Y)) Manufacturers of Steel Lukens

Heating Surface of Boilers 8331 Is Forced Draft fitted Yes No. and Description of Boilers 3 SE Scotch Boilers
 ng Pressure 190 lb Tested by hydraulic pressure to 285 lb Date of test 26-6-18 No. of Certificate 204

ch boiler be worked separately Area of fire grate in each boiler 61.8 No. and Description of Safety Valves to
 ilder Two 3 1/2" Dry Spring Area of each valve Pressure to which they are adjusted 190 lb Are they fitted with easing gear Yes

st distance between boilers or uptakes and bunkers or woodwork 3'-0" Mean dia. of boilers 15'-4 1/2" Length 11'-5" Material of shell plates Steel
15'-2" Range of tensile strength 60,000 lb Are the shell plates welded or flanged No Descrip. of riveting: cir. seams O-R
IR DBS Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 8 1/16" Lap of plates or width of butt straps 20 3/4"

stages of strength of longitudinal joint rivets 94.6% Working pressure of shell by rules 204 lb Size of manhole in shell 12" x 16"
plate 83.4% compensating ring Flanged No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 14'-1 1/4"

of plain part top 78" Thickness of plates crown 78" Description of longitudinal joint Weld No. of strengthening rings 1
 bottom 78" g pressure of furnace by the rules 204 Combustion chamber plates: Material Steel Thickness: Sides 7/8" Back 7/8" Top 7/8" Bottom 7/16"

stays to ditto: Sides 4 1/8" x 1 1/4" Back 4 1/8" x 1 1/4" Top 4 1/8" x 1 1/4" If stays are fitted with nuts or riveted heads Both Working pressure by rules 243 lb
 al of stays YY-I Area at smallest part 16.94" Area supported by each stay 55.21" Working pressure by rules 230 lb End plates in steam space:

al Steel Thickness 1 1/8" Pitch of stays 6 1/4" x 15" How are stays secured WNT Washers Working pressure by rules 214 lb Material of stays Steel
 at smallest part 5.93" Area supported by each stay 259.6" Working pressure by rules 237 Material of Front plates at bottom Steel

ss 1" Material of Lower back plate Steel Thickness 1 1/16" Greatest pitch of stays 14 1/4" x 7" Working pressure of plate by rules 309 lb
 r of tubes 2 1/2" Pitch of tubes 3 1/4" x 3 1/2" Material of tube plates Steel Thickness: Front 1" Back 3/4" Mean pitch of stays 9"

across wide water spaces 13" Working pressures by rules 243 lb Girders to Chamber tops: Material Steel Depth and
 is of girder at centre 9 1/2" x 1 3/4" Length as per rule 35" Distance apart 4 1/8" Number and pitch of stays in each 4 - 4 1/8"

g pressure by rules 237 lb Steam dome: description of joint to shell % of strength of joint
 r Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes

r rivets Working pressure of shell by rules Crown plates Thickness How stayed

HEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

f Safety Valves Pressure to which each is adjusted Is Easing Gear fitted

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Sun Shipbuilding Co.

CHESTER, PA.

Manufacturer.

Dates of Survey while building { During progress of work in shops -- April 25. May 3. July 1-8-16-31. Aug 2-5-16-18-21-26-30. Sept 13-18-23. Oct 7-15-23-24
During erection on board vessel -- 1915, Oct 2 Dec 12 18 30 1919 Jan 2 4 7 8 9 10 11 13 16 21 22 23 29 30 Feb 3 13 14 17 20
Total No. of visits

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders 7-10-18 Slides 7-10-18 Covers 7-10-18 Pistons 7-10-18 Rods 7-10-18

Connecting rods 7-10-18 Crank shaft 7-10-18 Thrust shaft Tunnel shafts Screw shaft Propeller

Stern tube Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Steel Identification Mark on Do. 3116-115 Material of Thrust shaft Identification Mark on Do.

Material of Tunnel shafts Identification Marks on Do. Material of Screw shafts Identification Marks on Do.

Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel 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 If so, state name of vessel

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

The engines and boilers have been constructed under Special Survey, in accordance with the approved plans. The materials and workmanship are sound and good.

They are being forwarded to be fitted on board.

The Engines & Boilers have been fitted on board in place of former water tube boilers & turbine and all connections fitted as before. The Engines & Boilers tried under full steaming condition with satisfactory results.

John S. Robison for L. P. Morrison

Certificate (if required) to be sent to
The Surveyors are requested not to write on or below the space for Committee's Minute.

The amount of Entry Fee ... £ : : 8
Special ... \$ 244.00 : :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) \$ 6.00 : :
2/3 of fee 163.00 & expenses \$ 6.00 collected here.

Committee's Minute New York MAY 20 1919

Assigned + N.E. & B. 2.19

Wm. Rumham
Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation