

REPORT ON MACHINERY.

No. 13933

REC'D NEW YORK Oct. 31. 1917

Received at London Office

1917 When handed in at Local Office 19 Port of New York, N.Y.

Survey held at Schenectady, N.Y. Date, First Survey Nov. 29-1916 Last Survey 19
on the ~~Union Pacific~~ "Frederic R. Kellogg" (Number of Visits)

THIS MACHINERY WAS FITTED TO MOORE & SCOTT'S HULL NO. 111. (S.Fo. Rpt 2550) Tons { Gross Net

Built at By whom built When built

Machinery made at Schenectady By whom made General Electric Co. when made 1917.

Machinery made at By whom made when made

Indicated Horse Power Owners Port belonging to

Horse Power at Full Power 2600. Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

NE ENGINES, &c. Description of Engines Grand Turbine GEARS - 25-44 No. of Turbines One.

of Rotor Shaft Journals, H.P. 8" L.P. Diameter of Pinion Shaft 7"

of Journals H.S. PINION 7" Distance between Centres of Bearings H.S. PINION 25" Diameter of Pitch Circle H.S. PINION 4.833

of Wheel Shaft 14" Distance between Centres of Bearings H.S. GEAR 38 1/2" Diameter of Pitch Circle of Wheel H.S. GEAR 57.666

Face 14.35" Diameter of Thrust Shaft under Collars Diameter of Tunnel Shaft as per rule as fitted

new Shafts Diameter of same as per rule as fitted Diameter of Propeller Pitch of Propeller

ades State whether Moveable Total Surface Diameter of Rotor Drum, H.P. L.P. Astern

at Bottom of Groove, H.P. L.P. Astern Revs. per Minute at Full Power, Turbine 3374.5 Propeller 90

CULARS OF BLADING.

L.P.I.				L.P.I.					
ACTIVE.				ACTIVE.					
PITCH.				PITCH.					
Yes	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
Yes	ANSION	75-125	2'-11 1/2"	2			8125-15	2'-2"	2
"		625	2'-9"	1			2375	2'-3"	1
"		125	3'-10 1/2"	1					
May 2	"	25	4'-0"	1					
July 2	"	6	4'-2"	1					
6th,	"								
"									
"									
"									

size of Feed pumps

size of Bilge pumps

size of Bilge suction in Engine 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

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

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

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

pes are carried through the bunkers How are they protected

Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

crew Shaft Tunnel watertight Is it fitted with a watertight door worked from

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

Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers

ng Pressure Tested by hydraulic pressure to Date of test No. of Certificate

ch boiler be worked separately Area of fire grate in each boiler No. and Description of Safety Valves to

iler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

about distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates

ess Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

rams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

stages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell

plates compensating ring No. and Description of Furnaces in each Boiler Material Outside diameter

of plain part top crown Thickness of plates Description of longitudinal joint No. of strengthening rings

bottom bottom Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

al of stays Diameter at smallest part Area supported by each stay Working pressure by rules End plates in steam space

al Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

ter at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

ess Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

ter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

ess of girder at centre Length as per rule Distance apart Number and pitch of stays in each

ng pressure by rules Steam dome: description of joint to shell % of strength of joint Diameter of rivet holes Pitch of rivets

ness of shell plates Material Description of longitudinal joint Diameter of rivet holes Pitch of rivets

ing 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

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer.

Dates
of Survey
while
building

During progress of
work in shops --
During erection on
board vessel ---
Total No. of visits

Nov. 29-1916 Dec. 11-1916

1917 Jan 18 Feb 2 Apr 5 Mar 28 Apr 17

Is the approved plan of main boiler forwarded herewith

" " " donkey " " "

Dates of Examination of principal parts—Casings

Rotors

Blading

Gearing

Rotor shaft

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

Main boiler safety valves adjusted

Thickness of adjusting washers

Material and tensile strength of Rotor shaft STEEL 80,000 LBS PER \square IN.

Identification Mark on Do. T.G.D.

Material and tensile strength of Pinion shaft " 100,000 LBS. " " "

Identification Mark on Do. T.G.D.

Material of Wheel shaft STEEL Identification Mark on Do. T.G.D.

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 a duplicate of a previous case

If so, state name of vessel

General Remarks

(State quality of workmanship, opinions as to class, &c. These engines have been constructed

under Special Survey in accordance with the approved plans.

The materials and workmanship are sound and good.

The engines have been forwarded to San Francisco, Cal. to be fitted on board.

The amount of Entry Fee ... £

:

:

When applied for.

Special

£

:

:

19

Donkey Boiler Fee

£

:

:

When received.

Travelling Expenses (if any) £

:

:

19

N.Y. \$15.00

Committee's Minute

New York AUG 28-1917

Assigned

+ Lmb 817 Fitted for oil fuel 8.17
Mch. aft. 3 P above 150°F.



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