

pt. 4a.

## REPORT ON MACHINERY.

No. 16211

Received at London Office 1 OCT 1919

REC'D NEW YORK

Date of writing Report

19

When handed in at Local Office

19

Port of

No. in Survey held at

Date, First Survey

Last Survey

19

Reg. Book.

(Number of Visits)

on the

Moon Hall 1019

Tons

Gross

Net

Master

Built at

By whom built

When built

Engines made at

Hoboken, N. J.

By whom made

W. &amp; A. Fletcher Co. (Eng. No. 247

when made

1919

Boilers made at

By whom made

when made

Registered Horse Power

Owners

Port belonging to

Shaft Horse Power at Full Power

2800

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

TURBINE ENGINES, &amp;c.—Description of Engines Parsons Reduction Geared

No. of Turbines

2

Diameter of Rotor Shaft Journals, H.P.

4" 2nd pin. 12"

Diameter of Pinion Shaft

7 3/4"

Diameter of Journals 1st pin. 5"

Distance between Centres of Bearings 1st 2'-4. 2nd 4'-9"

Diameter of Pitch Circle

1st pinion 7 3/4" 2nd pinion 15 1/2"

Diameter of Wheel Shaft

16 1/4"

Distance between Centres of Bearings

3'-7"

Diameter of Pitch Circle of Wheel

7'-9 1/2"

Width of Face

2'-2"

Diameter of Thrust Shaft under Collars

23" Kingsburg Thrust

Diameter of Tunnel Shaft

as per rule

as fitted

No. of Screw Shafts

Diameter of same

as per rule

Diameter of Propeller

Pitch of Propeller

No. of Blades

State whether Moveable

Total Surface

Diameter of Rotor Drum, H.P. 16"

L.P. 22"

HP 2'-0 1/16"

astern 22 3/4 LP

Thickness at Bottom of Groove, H.P. Solid

L.P. Solid

Astern Solid

Revs. per Minute at Full Power, Turbine

3600

Propeller 90

## PARTICULARS OF BLADING.

	H.P.			L.P.			HP			ASTERN.		
	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.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
1ST EXPANSION	5/8	14 1/2	6	2 1/2	2'-2 1/2	2	1 5/8	2'-3 5/16	1			
2ND	13/16	14 5/8	6	2 13/16	2'-3 5/8	2	2 5/16	2'-3 15/16	1			
3RD	1 1/16	15 1/8	5	3 1/2	2'-5"	2	3 1/16	2'-4 11/16	1			
4TH	1 3/8	15 3/4	5	4 3/8	2'-6 3/4	2						
5TH	1 1/8	18 1/2	3	5	2'-8"	1	L. P. A S T E R N					
6TH	1 7/16	18 7/8	3	5	2'-8"	1	2 5/8	2'-4"	1	1st exp.		
7TH	1 7/8	19 3/4	3	5	2'-8"	1	4 1/2	2'-5 5/8	1	2nd "		
8TH	2 3/8	20 3/4	3	5	2'-8"	1	5 7/8	2'-7 1/2	1	3rd "		

No. and size of Feed pumps

No. and size of Bilge pumps

No. and size of Bilge suction in Engine Room

In Holds, &amp;c.

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine Room &amp; size

Are all the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

Are all connections with the sea direct on the skin of the ship

Are they Valves or Cocks

Are they 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

Are they 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

What pipes are carried through the bunkers

How are they protected

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

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

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

BOILERS, &amp;c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

No. of Certificate

Working Pressure

Tested by hydraulic pressure to

Date of test

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

Each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

Long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Per centages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each Boiler

Material

Outside diameter

Length of plain part

top

Thickness of plates

crown

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

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

End plates in steam space

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of stays

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of Front plates at bottom

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Working pressure of plate by rules

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Back

Mean pitch of stays

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Girders to Chamber tops: Material

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Pitch across wide water spaces

Working pressures by rules

Number and pitch of stays in each

Thickness of girder at centre

Length as per rule

Distance apart

% of strength of joint

Diameter

Working pressure by rules

Steam dome: description of joint to shell

Diameter of rivet holes

Pitch of rivets

Thickness of shell plates

Material

Description of longitudinal joint

How stayed

Working pressure of shell by rules

Crown plates: Thickness

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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,

W & A Fletcher Co.

Manufacturer.

Andrew Fletcher Jr. Secretary

Dates of Survey while building  
(During progress of work in shops - - )  
(During erection on board vessel - - - )  
Total No. of visits

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

Identification Mark on Do.

Material and tensile strength of Pinion shaft

Identification Mark on Do.

Material of Wheel shaft

Identification Mark on Do.

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 no If so, state name of vessel

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

The Turbines have been constructed under special survey and in accordance with plans submitted to and approved by the Committee—

The materials have been tested in accordance with the rules—

The workmanship and materials are sound and good—

The turbines have been dispatched to Moore Shipbuilding Company, Oakland, California for installation

The amount of Entry Fee ... £ : : When applied for, 19  
Special ... £ 1/3 due : :  
Donkey Boiler Fee ... £ New York : :  
Travelling Expenses (if any) £ See 3142 : :  
When received, 19

Committee's Minute

New York SEP 16 1919

Assigned

See S to Rpt 3142.

Engineer Surveyor to Lloyd's Register of Shipping.



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Rpt. 13.

RE

Port of

No. in Reg. Book

197

Owners U.S.

Yard No. 1019

DESCRIPTION

2-20 HP Tu

Capacity of Dyn

Where is Dynan

Position of Main

Positions of au

1 -

pan

If fuses are fi

circuits

If vessel is win

Are the fuses

Are all fuses

are perma

Are all switche

Total number o

A 10

B 3

C 1

D 4

E 4

2 Mast

2

9

If arc lights,

Where are the

DESCRIPTION

Main cable car

Branch cables

Branch cables

Leads to lamps

Cargo light cab

DESCRIPTION

All

Joints in cable

join

Are all the jo

positions

Are there any

How are the