

REPORT ON MACHINERY.

No. 16211

Received at London Office 1 OCT 1919

pt. 4a.

REC'D NEW YORK

Date of writing Report 19 _____ When handed in at Local Office _____ Port of _____

No. in Survey held at _____ Date, First Survey _____ Last Survey _____ 19 _____

Reg. Book _____ on the Moore Hall 1019 (Number of Visits _____) Tons { Gross _____ Net _____

Master _____ Built at _____ By whom built _____ When built _____

Engines made at Hoboken, N. J. By whom made W. & 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, &c.—Description of Engines Parsons Reduction Geared No. of Turbines 2

Diameter of Rotor Shaft Journals, H.P. 4" L.P. 4" 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 _____ as fitted _____ 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.
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	L. P. A S T E R N		
5th "	1 1/8	18 1/2	3	5	2'-8"	1	2 5/8	2'-4"	1. 1st exp.
6th "	1 7/16	18 7/8	3	5	2'-8"	1	4 1/2	2'-5 5/8	1 2nd "
7th "	1 7/8	19 3/4	3	5	2'-8"	1	5 7/8	2'-7 1/2	1 3rd "
8th "	2 3/8	20 3/4	3	5	2'-8"	1			

No. and size of Feed pumps _____

No. and size of Bilge pumps _____

No. and size of Bilge suction in Engine Room _____

In Holds, &c. _____

No. of Bilge Injections _____ sizes _____ Connected to condenser, or to circulating pump _____ Is a separate Donkey Suction fitted in Engine Room & 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, &c.—(Letter for record _____) Manufacturers of Steel _____

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

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

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 _____

plates _____

No. and Description of Furnaces in each Boiler _____ Material _____ Outside diameter _____

Size of compensating ring _____

Length of plain part _____ 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 _____ Material of Front plates at bottom _____ Working pressure of plate by rules _____

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

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

Pitch across wide water spaces _____ Working pressures by rules _____ Girders to Chamber tops: Material _____ © 2020 _____ Depth and _____

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

Working pressure by rules _____ Steam dome: description of joint to shell _____ % of strength of joint _____ Diameter _____

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

Working pressure of shell by rules _____ Crown plates: Thickness _____ How stayed _____

W1130-0060

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,
Special	£	1/3 due	:	19
Donkey Boiler Fee	£	New York	:	When received,
Travelling Expenses (if any)	£	See 3142	:	19

F. J. Manning
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

New York SEP 16 1919

Assigned

See S. F. Rpt 3142.

Rpt. 13.

RE

Port of _____

No. in _____ on the _____
 Reg. Book _____ Bu _____

1917
 Du Sup. U.S. Owners _____

Yard No. 1019

DESCRIPTION

2-20 HP Tu

Capacity of Dyn

Where is Dynam

Position of Main

Positions of au

1 -

pan

If fuses are fi

circuits

If vessel is wir

Are the fuses

Are all fuses f

are perma

Are all switche

Total number o

A 10

B 5

C 1

D 4

E 4

2 Mast

2

9

If arc lights, t

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



© 2020

Lloyd's Register Foundation

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