

REPORT ON MACHINERY.

No. 15153

REC'D NEW YORK June 18-1918

Received at London Office MON 20 DEC 1918

4a.

of writing Report

19

When handed in at Local Office

19

Port of NEW YORK N.Y.

in Survey held at SCHENECTADY N.Y.

Date, First Survey

Last Survey

19

on the

S/S "Federal"

(Number of Visits)

Gross
Tons
Net

ster A. N. Pratt

Built at

Keany N.J.

By whom built

Federal Shipbuilding Co

When built 1918-11

gines made at SCHENECTADY N.Y.

By whom made

GENERAL ELECTRIC CO

when made 1918-11

gilers made at Keany N.J.

By whom made

Federal Shipbuilding Co

when made 1918-11

istered Horse Power

Owners

ft Horse Power at Full Power 2500

Is Refrigerating Machinery fitted for cargo purposes

Port belonging to

Is Electric Light fitted

BINE ENGINES, &c.—Description of Engines

GEARED TURBINE (TURBINE 13430. GEAR 2997)

No. of Turbines ONE

eter of Rotor Shaft Journals, H.P.

8"

L.P.

Diameter of Pinion Shaft

7"

eter of Journals

H.S. PINION 4" GEAR 10"

Distance between Centres of Bearings

H.S. PINION 25" GEAR 27 1/2"

Diameter of Pitch Circle

H.S. PINION 7.833" GEAR 57.666"

eter of Wheel Shaft

14"

Distance between Centres of Bearings

L.S. PINION 52"

Diameter of Pitch Circle of Wheel

L.S. PINION 10.75" GEAR 54.75"

of Face

14.35"

Diameter of Thrust Shaft under Collars

Diameter of Tunnel Shaft

as per rule

Screw Shafts

Diameter of same

as per rule

Diameter of Propeller

Pitch of Propeller

Blades

State whether Moveable

Total Surface

Diameter of Rotor Drum, H.P.

L.P.

astern

ress at Bottom of Groove, H.P.

L.P.

astern

Revs. per Minute at Full Power, Turbine

3374.5

Propeller

90

Particulars of Blading.

	H. P.			L. P.			ASTERN.		
	ACTIVE HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.	ACTIVE HEIGHT OF BLADES.	PITCH DIAMETER AT TIP.	NO. OF ROWS.
EXPANSION	75-125	2'-11 1/2"	2						
"	625	3'-9"	1				825-1.5	3'-3"	2
"	125	3'-10 1/2"	1				3375	3'-3"	1
"	25	4'-0"	1						
"	6	4'-2"	1						
"									
"									
"									
"									
"									

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

s are carried through the bunkers

How are they protected

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

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

ow Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

ES, &c.—(Letter for record

Manufacturers of Steel

ating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

iler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Range of tensile strength

Mean dia. of boilers

Length

Material of shell plates

Diameter of rivet holes in long. seams

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

Pitch of rivets

Lap of plates or width of butt straps

ges of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

Compensating ring

No. and Description of Furnaces in each Boiler

Material Outside diameter

plain part

Thickness of plates

Description of longitudinal joint

No. of strengthening rings

bottom

crown

bottom

pressure of furnace by the rules

Combustion chamber plates: Material

Thickness: Sides

Back

Top

Bottom

ays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

ays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

ss wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

f girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

ressure by rules

Steam dome: description of joint to shell

% of strength of joint

Diameter

of shell plates

Material

Description of longitudinal joint

Diameter of rivet holes

Pitch of rivets

ressure of shell by rules

Crown plates: Thickness

How stayed

006175-06188-0252

Lloyd's Register Foundation

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,

General Electric Co.
per S/S Borg.

Manufacturer.

Dates of Survey while building
During progress of work in shops -- 1918. APRIL 17. MAY 15. 17. 21. 22. 23. 24. 28. 29. JUNE 3.
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 *STEEL 80,000 LBS. LT. MINIMUM.*

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, etc.) *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 New York N.Y. to be fitted on board.*

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 ... £

Special ... £

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for,

19

When received,

19

T.G. D.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

NEW YORK DEC 10 1918

Assigned

See NY Rpt 15854



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