

REPORT ON MACHINERY.

No. 13730

WED. NOV 28 1917.

Received at London Office

Date of writing Report _____ When handed in at Local Office _____ Port of New York
No. in Survey held at Schenectady, N.Y. Date, First Survey _____ Last Survey _____ 19
Reg. Book _____ on the Williamell SS 80:22 War Baron (Number of Visits _____) Tons { Gross _____ Net _____
Master _____ Built at Patterson, O. By whom built Williamell S.S. & W. Co. When built 1917
Engines made at Schenectady, N.Y. By whom made General Electric Company when made _____
Boilers made at _____ By whom made _____ when made _____
Registered Horse Power _____ Owners _____ Port belonging to _____
Shaft Horse Power at Full Power 2500 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

TURBINE ENGINES, &c. Description of Engines Grand Turbine No. of Turbines One
Diameter of Rotor Shaft Journals, H.P. 8" L.P. _____ Diameter of Pinion Shaft 4"
Diameter of Journals 4.5" Pinion 4" Distance between Centres of Bearings 4.5" Gear 39" Diameter of Pitch Circle 4.5" Gear 37" 4.5" Pinion 19.75"
Diameter of Wheel Shaft 14" Distance between Centres of Bearings 4.5" Pinion 39" Diameter of Pitch Circle of Wheel 4.5" Gear 37"
Width of Face 14.25" Diameter of Thrust Shaft under Collars _____ 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. _____ L.P. _____ Astern _____
Thickness at Bottom of Groove, H.P. _____ L.P. _____ Astern _____ Revs. per Minute at Full Power, Turbine 3380 Propeller 90

PARTICULARS OF BLADING.

	ACTIVE HEIGHT OF BLADES.	H.P. PITCH DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	L.P. DIAMETER AT TIP.	NO. OF ROWS.	ACTIVE HEIGHT OF BLADES.	ASTERN PITCH DIAMETER AT TIP.	NO. OF ROWS.
1ST EXPANSION	7.5" - 1.25"	2' - 4.5"	2				8.25" - 1.4"	2' - 3"	2
2ND	6.25"	3' - 9"	1				3' - 4"	2' - 3"	1
3RD	1.25"	2' - 10.5"	1						
4TH	2.5"	4' - 0"	1						
5TH	6"	4' - 2"	1						
6TH									
7TH									
8TH									

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 _____
How are they protected _____
What pipes are carried through the bunkers _____
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 _____ No. of Certificate _____
Working Pressure _____ Tested by hydraulic pressure to _____ Date of test _____ No. and Description of Safety Valves to _____
Can each boiler be worked separately _____ Area of fire grate in each boiler _____ Are they fitted with easing gear _____
each boiler _____ Area of each valve _____ Pressure to which they are adjusted _____ Length _____ Material of shell plates _____
Smallest distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers _____ Descrip. of riveting: cir. seams _____
Thickness _____ Range of tensile strength _____ Are the shell plates welded or flanged _____ Lap of plates or width of butt straps _____
long. seams _____ Diameter of rivet holes in long. seams _____ Pitch of rivets _____ Size of manhole in shell _____
Per centages of strength of longitudinal joint _____ Working pressure of shell by rules _____ Material _____ Outside diameter _____
Size of compensating ring _____ No. and Description of Furnaces in each Boiler _____ No. of strengthening rings _____
Length of plain part _____ Thickness of plates _____ Description of longitudinal joint _____
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 _____ 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 _____ 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 _____



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Lloyd's Register
Foundation

SUPERHEATER. Ty, e

Date of Test

Date of Approval of Plan

Diameter of Safety Valve

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

Tested by Hydraulic Pressure to

Pressure to which each is adjusted

Is Easing Gear fitted

IS A DONKEY BOILER FITTED?

SPARE GEAR. State the articles supplied:—

If so, is a report now forwarded?

The foregoing is a correct description,

Ed. Dickinson
General Electric Co

Manufacturer.

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

Dates of Examination of principal parts—Casings

Rotor shaft

Thrust shaft

Rotors

Blading

Gearing

Stern tube

Steam pipes tested

Tunnel shafts

Screw shaft

Propeller

Completion of pumping arrangements

Engine and boiler settings

Engines holding down bolts

Main boiler safety valves adjusted

Boilers fixed

Engines tried under steam

Material and tensile strength of Rotor shaft

Thickness of adjusting washers

Material and tensile strength of Pinion shaft

Identification Mark on Do. 7.62

Material of Wheel shaft

Identification Mark on Do. 7.62

Identification Mark on Do. 7.62

Material of Tunnel shafts

Identification Marks on Do.

Material of Thrust shaft

Identification Mark on Do.

Material of Steam Pipes

Material of Screw shafts

Identification Marks on Do.

Is an installation fitted for burning oil fuel

Test pressure

Have the requirements of Section 49 of the Rules been complied with

Is the flash point of the oil to be used over 150°F.

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.)

under Special Survey in accordance with the approved plans.
The material and workmanship are sound and good.
The engines have been forwarded to Portland, O. to be fitted on board.

The amount of Entry Fee ... £

Special ... £

Donkey Boiler Fee ... £

Travelling Expenses (if any) £

When applied for,

19

When received,

19

Committee's Minute

New York OCT 23 1917

Assigned

See P.O. 3E No 473

H. D. Dodd
Engineer Surveyor to Lloyd's Register of Shipping.



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