

Writing Report 19 When handed in at Local Office 19 Port of Philadelphia
Survey held at Brenton N.J. Date, First Survey _____ Last Survey _____
Book. _____ (Number of Visits _____)
on the _____ Tons { Gross _____ Net _____
Built at _____ By whom built _____ When built _____
Made at _____ By whom made _____ when made _____
Made at _____ By whom made _____ when made _____
Horse Power _____ Owners _____ Port belonging to _____
Horse Power at Full Power 2500 Is Refrigerating Machinery fitted for cargo purposes _____ Is Electric Light fitted _____

ENGINE ENGINES, &c.—Description of Engines Single reduction geared turbines No. of Turbines Two
Diameter of Pinion Shaft 5"
Diameter of Pitch Circle 5.4"
Distance between Centres of Bearings 24.98"
Diameter of Pitch Circle of Wheel 119.8"
Diameter of Thrust Shaft under Collars _____ as per rule _____
Diameter of Tunnel Shaft _____ as fitted _____
Pitch of Propeller _____
Diameter of Rotor Drum, H.P. ☒ L.P. ☒ Astern ☒
Propeller 110

DETAILS OF BLADING.

	H. P.			L. P.			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.
EXPANSION	1.15	33.551	2	1.32	48.903	1	1.150	39.134	2
"	1.15	33.551	1	2.166	50.810	1	1.150	39.674	2
"	1.15	33.551	1	2.456	52.051	1	1.150	41.644	2
"	1.15	33.551	1	3.150	51.543	1	1.150	42.668	2
"	1.15	33.551	1	4.015	53.313	1			
"	1.15	33.551	1	4.474	54.023	1			
"	1.15	33.551	1	6.300	55.423	1			

all size of Feed pumps _____
all size of Bilge pumps _____
all 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 _____
Are the roses in Engine room always accessible _____
Are they Valves or Cocks _____
Are the Discharge Pipes above or below the deep water line _____
Are the Blow Off Cocks fitted with a spigot and brass covering plate _____
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 _____
Screw Shaft Tunnel watertight _____ Is it fitted with a watertight door _____ worked from _____
BOILERS, &c.—(Letter for record) _____ Manufacturers of Steel _____
Heating Surface of Boilers _____ Forced Draft fitted _____ No. and Description of Boilers _____
Tested by hydraulic pressure to _____ Date of test _____ No. of Certificate _____
Each boiler 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 _____
Mean dia. of boilers _____ Length _____ Material of shell plates _____
Descrip. of riveting: cir. seams _____
Lap of plates or width of butt straps _____
Range of tensile strength _____ Are the shell plates welded or flanged _____
Pitch of rivets _____
Diameter of rivet holes in long. seams _____
Working pressure of shell by rules _____ Size of manhole in shell _____
No. and Description of Furnaces in each Boiler _____ Material _____ Outside diameter _____
Thickness of plates _____ Description of longitudinal joint _____ No. of strengthening rings _____
Combustion chamber plates: Material _____ Thickness: Sides _____ Back _____ Top _____ Bottom _____
Working pressure by rules _____
If stays are fitted with nuts or riveted heads _____ Working pressure by rules _____ End plates in steam space _____
Diameter at smallest part _____ Area supported by each stay _____ Working pressure by rules _____ Material of stays _____
Pitch of stays _____ How are stays secured _____ Working pressure by rules _____ Material of Front plates at bottom _____
Working pressure of plate by rules _____
Material of Lower back plate _____ Thickness _____ Greatest pitch of stays _____ Working pressure of plate by rules _____
Pitch of tubes _____ Material of tube plates _____ Thickness: Front _____ Back _____ Mean pitch of stays _____
Girders to Chamber tops: Material _____ Depth and _____
Length as per rule _____ Distance apart _____ Number and pitch of stays in each _____
Steam dome: description of joint to shell _____ % of strength of joint _____ Diameter _____
Description of longitudinal joint _____ Diameter of rivet holes _____ Pitch of rivets _____
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:—

3 Turbine bearings are set thrust pads Pinion beam
for each line fitted, 4 bearings, 10 coupling bolts, 1/2 set, 10 coupling bolts
for each turbine, 10 bolts 1/2 inch for turbine open ends bearings are
are thrust collar 19 thrust shoes

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out

inverted bearings with 1/2 inch of pin

The foregoing is a correct description,

Donkey Steam Turbine Co.
Ch. Waller, C. E.

Manufacturer.

p. 2

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

1st 2nd 3rd 4th 5th 6th 7th 8th 9th 10th 11th 12th 13th 14th 15th 16th 17th 18th 19th 20th 21st 22nd 23rd 24th 25th 26th 27th 28th 29th 30th 31st

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts	Casings	Rotor	Blading	Claring					
Rotor shaft	3-3-20	Thrust shaft	1	Tunnel shafts	1	Screw shaft	1	Propeller	1
Stern tube	1	Steam pipes tested	1	Engine and boiler seatings	1	Engines holding down bolts	1	Engines tried under steam	1
Completion of pumping arrangements	1	Boilers sized	1	Engines tried under steam	1	Engines tried under steam	1	Engines tried under steam	1
Main boiler safety valves adjusted	1	Thickness of adjusting washers	1	Engines tried under steam	1	Engines tried under steam	1	Engines tried under steam	1
Material and tensile strength of Rotor shafts	Kickel Steel 49 81800 19 90800	Identification Mark on Do.	HP 2905 WR 12H	Identification Mark on Do.	HP 2905 WR 12H	Identification Mark on Do.	HP 2905 WR 12H	Identification Mark on Do.	HP 2905 WR 12H
Material and tensile strength of Pinion shafts	Kickel Steel 110 000 lbs & 114 000 lbs	Identification Mark on Do.	HP 2905 WR 12H	Identification Mark on Do.	HP 2905 WR 12H	Identification Mark on Do.	HP 2905 WR 12H	Identification Mark on Do.	HP 2905 WR 12H
Material of Wheel shaft	Steel	Identification Mark on Do.	HP 2905 WR 12H	Identification Mark on Do.	HP 2905 WR 12H	Identification Mark on Do.	HP 2905 WR 12H	Identification Mark on Do.	HP 2905 WR 12H
Material of Tunnel shafts	Identification Marks on Do.	Material of Screw shafts	Identification Marks on Do.	Identification Marks on Do.	Identification Marks on Do.	Identification Marks on Do.	Identification Marks on Do.	Identification Marks on Do.	Identification Marks on Do.
Material of Steam Pipes	Test pressure	Test pressure	Test pressure	Test pressure	Test pressure	Test pressure	Test pressure	Test pressure	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.)

This machinery has been built under special survey, the materials & workmanship are of good quality. It has been built to the order of the Ruckelshach S.S. Co. and shipped to the Dependable Warehouse Bulls Ferry N.J. for storage.

The amount of Entry Fee	£	:	:	When applied for,
Special	100	:	:	13 Oct 1920
Donkey Boiler Fee	£	:	:	When received,
Travelling Expenses (if any)	£	:	:	20 Jan 1921

William Butts

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned



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Foundation