

REPORT ON MACHINERY.

No. 55920
MON. 28 DEC 1908

Port of Newcastle

Received at London Office

No. in Survey held at Newcastle

Date, first Survey Mar. 17

Last Survey Dec 19 1908

Reg. Book.

on the

s/s Cheyenne

Master J. McDonald

Built at

Newcastle

By whom built Swan Hunter & Co. Ltd

Tons Gross 4987

Net 3015

When built 1908

Engines made at Newcastle

By whom made

Wallaseed Shipway & Co. Ltd when made 1908

Boilers made at

By whom made

when made 1908

Registered Horse Power

Owners Anglo-American Oil Co. Ltd

Port belonging to Newcastle

Nom. Horse Power as per Section 28 440 ✓

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted 408.

ENGINES, &c.—Description of Engines In CRD.

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 26.43.72

Length of Stroke 48

Revs. per minute 64

Dia. of Screw shaft

as per rule 14.68

Material of screw shaft 8 ✓

Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes. ✓

Is the after end of the liner made water tight

in the propeller boss yes. If the liner is in more than one length are the joints burned ✓

If the liner does not fit tightly at the part

between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive yes. ✓

If two

liners are fitted, is the shaft lapped or protected between the liners ✓

Length of stern bush 5'6" ✓

Dia. of Tunnel shaft as per rule 13.81

Dia. of Crank shaft journals as per rule 13.68

as fitted 14.4

Dia. of Crank pin 14.4

Size of Crank webs 29 1/2 x 9 1/2

Dia. of thrust shaft under

collars 14.4

Dia. of screw 18

Pitch of Screw 17.9

No. of Blades 4

State whether moveable M

Total surface 98.4

No. of Feed pumps 4

Diameter of ditto 7

Stroke 9 1/2 x 18

Can one be overhauled while the other is at work yes. ✓

No. of Bilge pumps 2

Diameter of ditto 4 1/2

Stroke 24

Can one be overhauled while the other is at work yes. ✓

No. of Donkey Engines 2

Sizes of Pumps 6 x 8 1/2 x 6, 7 1/2 x 5 x 6

No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 3 of 8 1/2

In Holds, &c. 4 pumps

J. & W. 3

No. of Bilge Injections 1

sizes 7

Connected to condenser, or to circulating pump CR

Is a separate Donkey Suction fitted in Engine room & size 408. ✓

Are all the bilge suction pipes fitted with roses yes

Are the roses in Engine room always accessible yes

Are the sluices on Engine room bulkheads always accessible ✓

Are all connections with the sea direct on the skin of the ship yes. ✓

Are they Valves or Cocks both. ✓

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates yes

Are the Discharge Pipes above or below the deep water line about

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel yes

Are the Blow Off Cocks fitted with a spigot and brass covering plate 400

What pipes are carried through the bunkers none

How are they protected ✓

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

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

Dates of examination of completion of fitting of Sea Connections 4.11.08

of Stern Tube 4.11.08

Screw shaft and Propeller 4.11.08

Is the Screw Shaft Tunnel watertight none

Is it fitted with a watertight door ✓

worked from ✓

BOILERS, &c.—(Letter for record S. ✓)

Manufacturers of Steel

Spencer & Sons Ltd

Total Heating Surface of Boilers 7500 sq. ft.

Forced Draft fitted no

No. and Description of Boilers 4 S.E.

Working Pressure 180 lb

Tested by hydraulic pressure to 360

Date of test 28.7.08

No. of Certificate 7739

Can each boiler be worked separately yes ✓

Area of fire grate in each boiler 53 sq. ft.

No. and Description of Safety Valves to

each boiler 2 Spring

Area of each valve 5.93 sq. in.

Pressure to which they are adjusted 185 lb

Are they fitted with easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork about 2 ft.

Mean dia. of boilers 14' 3"

Length 11' 0"

Material of shell plates 8 ✓

Thickness 1 1/8"

Range of tensile strength 292, 33 1/2

Are the shell plates welded or flanged 8 and 1/2

Descrip. of riveting: cir. seams 8.7 lap

long. seams 2 butts

Diameter of rivet holes in long. seams 1 1/16"

Pitch of rivets 8"

Top of plates on width of butt straps 87 3/4

Per centages of strength of longitudinal joint

rivets 91.8

plate 85.15

Size of compensating ring McNeil's

No. and Description of Furnaces in each boiler 3 Morris

Material 8

Outside diameter 3' 7"

Length of plain part top

Thickness of plates crown 1 1/2

Description of longitudinal joint Weld

No. of strengthening rings

Working pressure of furnace by the rules 219

Combustion chamber plates: Material 8

Thickness: Sides 3/32

Pitch of stays to ditto: Sides 8 1/4 x 7 1/8

Back 8 x 7

Top 8 1/4 x 8

If stays are fitted with nuts or riveted heads nuts

Working pressure by rules 225

Material of stays 8

Diameter at smallest part 2.03

Area supported by each stay 56.8

Working pressure by rules 207

End plates in steam space:

Material 8

Material 8

Thickness 1 1/32

Pitch of stays 21.19 3/4

How are stays secured 2 nuts

Working pressure by rules 213

Material of stays 8

Diameter at smallest part 9.8

Area supported by each stay 415.5

Working pressure by rules 246

Material of Front plates at bottom 8

Thickness 1

Material of Lower back plate 8

Thickness 1/2

Greatest pitch of stays 13 1/2

Working pressure of plate by rules 254

Diameter of tubes 3 1/4

Pitch of tubes 4 1/2 x 4 1/2

Material of tube plates 8

Thickness: Front 1

Back 3/4

Mean pitch of stays 9

Pitch across wide water spaces 14

Working pressures by rules 249

Girders to Chamber tops: Material 8

Depth and thickness of girder at centre 9 1/4 x 1 1/2

Length as per rule 35 5/8

Distance apart 8

Number and pitch of stays in each 3 @ 8 1/4

Working pressure by rules 195

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plate

Material

Description of longitudinal joint

Diam. of rivet

holes

Pitch of rivets

Working pressure of shell by rules

Diameter of flue

Material of flue plates

Thickness

If stiffened with rings

Distance between rings

Working pressure by rules

End plates: Thickness

How stayed

Working pressure of end plates

Area of safety valves to superheater

Are they fitted with easing gear

Lloyd's Register

Foundation

W1134 - 0204

VERTICAL DONKEY BOILER— Manufacturers of Steel

No.	Description				
Made at	By whom made	When made	Where fixed		
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Safety
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
If fitted with easing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler		Length	
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Stayed by			
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied :— 1 Set connecting rod bolts & nuts. 1 set main bearing bolts & nuts. 1 set coupling bolts & nuts. 1 set valves for Wain pumps. 1 set bilge pumps. spare tail shaft. loose blades nuts bolts & iron.

The foregoing is a correct description,
FOR THE WALLSEND SLIPWAY & ENGINEERING CO. LIMITED.
Manufacturer.

Dates of Survey while building	During progress of work in shops—	1908. Mar. 7. 22. Apr. 27. 9. 21. June 15. 18. July 27. 17. 27. 28. 29. Aug. 27. Sep. 11. 14. Oct. 16. 18. 21. 23. Nov. 4. 5. 12. 16.
	During erection on board vessel—	Aug. 23. 25. 27. Dec. 25. 27. 14. 19.
	Total No. of visits	38

Is the approved plan of main boiler forwarded herewith 408

" " " donkey " " " 1

Dates of Examination of principal parts—		Cylinders 27. 8. 08	Slides 27. 8. 08	Covers 27. 7. 08	Pistons 27. 7. 08	Rods 27. 7. 08
Connecting rods 27. 7. 08		Crank shaft 15. 10. 08	Thrust shaft 15. 10. 08	Tunnel shafts ✓	Screw shaft 1. 11. 08	Propeller 1. 11. 08
Stern tube 1. 11. 08		Steam pipes tested 12. 8. 08	Engine and boiler seatings 4. 11. 08	Engines holding down bolts 12. 11. 08		
Completion of pumping arrangements 14. 12. 08.		Boilers fixed 12. 11. 08.	Engines tried under steam 8. 12. 08.			
Main boiler safety valves adjusted 8. 12. 08.		Thickness of adjusting washers PB $\frac{1}{4}$ 6 4. 8 BP $\frac{1}{4}$ 3 4. PB $\frac{1}{16}$ 5 16. SB $\frac{1}{32}$ 3 32.				
Material of Crank shaft S		Identification Mark on Do. B J F	Material of Thrust shaft S		Identification Mark on Do. B J F	
Material of Tunnel shafts ✓		Identification Marks on Do. ✓	Material of Screw shafts S		Identification Marks on Do. B J F	
Material of Steam Pipes W. J.		Test pressure 540 lbs				

General Remarks (State quality of workmanship, opinions as to class, &c. Machinery & boilers. built under Special Survey; Materials & workmanship good. Engines & boilers examined under full steam & found satisfactory. It is submitted that this vessel is eligible for the record of L M. C. 12/08.

It is submitted that
this vessel is eligible for
THE RECORD. + L M C 12. 08.
66c. Light

J. R. R. 28/12/08
H. D. 28/12/08

The amount of Entry Fee..	£ 3 :	:	When applied for,
Special	£ 42 :	:	19 Dec 1908
Donkey Boiler Fee	£ :	:	When received,
Travelling Expenses (if any) £	:	:	22 Dec 1908

Committee's Minute

Assigned

TUES 29 DEC 1908

+ L M C 12. 08
66c. Light

MACHINERY CERTIFICATE
WRITTEN



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