

REPORT ON MACHINERY.

No. 23823.

Port of SunderlandReceived at London Office WED. 16 SEP 1908No. in Survey held at SunderlandDate, first Survey 1st JuneLast Survey 12 Sept. 1908

Reg. Book.

(Number of Visits 23)

of Safety

on the

S. S. Oneida

Master

Built at

Grange-mouth

By whom built

Greenock & Grange-mouth LtdTons }
Gross
NetWhen built 1908

Engines made at

Sunderland & Thiddell

By whom made

Richardsons Westgate & Co

when made

4

Boilers made at

Thiddell & Co

By whom made

4

when made

4

Registered Horse Power

Owners

Anglo American Oil Co

Port belonging to

London

Nom. Horse Power as per Section 28

Is Refrigerating Machinery fitted for cargo purposes

Is Electric Light fitted

ENGINES, &c.—Description of Engines

Inverted TripleNo. of Cylinders ThreeNo. of Cranks Three

Dia. of Cylinders

14" 23" 37"

Length of Stroke

24"

Revs. per minute

120

Dia. of Screw shaft

as per rule

as fitted

Material of

screw shaft

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

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

If two

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

Length of stern bush

Dia. of Tunnel shaft

as per rule

as fitted

Dia. of Crank shaft journals

as per rule

as fitted

Dia. of Crank pin

1 1/2"

Size of Crank webs

12 1/2 x 5"

Dia. of thrust shaft under

collars

Dia. of screw

Pitch of Screw

No. of Blades

State whether moveable

Total surface

No. of Feed pumps

Two

Diameter of ditto

2 1/2"

Stroke

12"

Can one be overhauled while the other is at work

No. of Bilge pumps

Two

Diameter of ditto

2 1/2"

Stroke

12"

Can one be overhauled while the other is at work

No. of Donkey Engines

Sizes of Pumps

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

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 the sluices on Engine room bulkheads 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

Dates of examination of completion of fitting of Sea Connections

of Stern Tube 12.9.08 Screw shaft and Propeller 12.9.08

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

plate

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

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

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space:

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

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

Superheater or Steam chest; how connected to boiler

Can the superheater be shut off and the boiler worked

separately

Diameter

Length

Thickness of shell plates

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

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 _____
 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: *Two each bolt nuts for top & bottom ends & main bearings
 6 coupling bolt nuts & 8 flange bolt nuts. Set of gland studs, valves for all pumps. Bolt
 nuts, & iron assorted.*

The foregoing is a correct description,

RICHARDSONS WESTGARTH & CO., LTD.

Henry James

Manufacturers

Assistant Secretary

Dates of Survey: During progress of work in shops - 1908 - June 1, 12, 15, 19, 30. July 2, 6, 12, 14, 23, 29. Aug. - 7, 11, 13, 17, 19, 22, 26, 27, 28, 31. Sept 8, 12
 while building: During erection on board vessel - -
 Total No. of visits 23

Is the approved plan of main boiler forwarded herewith *hs*

" " " donkey " " " *hs*

Dates of Examination of principal parts—Cylinders *8.9.08*. Slides *11.8.08*. Covers *11.8.08*. Pistons *11.8.08*. Rods *7.8.08*
 Connecting rods *7.8.08*. Crank 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 of Crank shaft *Glasgow Rep.* Identification Mark on Do. *2505 AF* 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 ✓

General Remarks (State quality of workmanship, opinions as to class, &c.)

*The machinery of this vessel as stated above has been
 Constructed under special survey. The material & workmanship
 found good & efficient. & after being erected at this Port. was
 temporarily secured on board the vessel which left for
 Liddlebrough for completion.*

The amount of Entry Fee. . £ : : When applied for,
 Special £ : :19.....
 Donkey Boiler Fee £ : :
 Travelling Expenses (if any) £ : :19.....

Committee's Minute

FRI. 16 OCT 1908

Assigned

E. J. Stoddart & R. W. Coomber
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.



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Lloyd's Register
 Foundation

Dated

W B & L

Working pres

Certificate (if required) to be sent to the Committee's Minute.

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