

REPORT ON MACHINERY.

No. 10926

Port of Lith

Received at London Office

MON. 12 DEC 1904

No. in Survey held at Grangemouth
Reg. Book.Date, first Survey 27th OctoberLast Survey 24th November 1904(Number of Visits 3)on the Steel Sailing Barge "FORESTAL"Master —Built at GrangemouthBy whom built Grangemouth & Grumack Sh. Co.Tons { Gross 705.77
Net 657.42
When built 1904Engines made at —By whom made —when made —Boilers made at BlacktonBy whom made J. Anderson & Co. Ltd.when made 1904Registered Horse Power —Owners Navigation & Vapn. (N. Mikhomovich)Port belonging to Buenos AyresNom. Horse Power as per Section 28 —Is Refrigerating Machinery fitted for cargo purposes —Is Electric Light fitted —

ENGINES, &c.—Description of Engines

No. of Cylinders

No. of Cranks

Dia. of Cylinders

Length of Stroke

Revs. per minute

Dia. of Screw shaft

as per rule

Material of

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 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

Dia. of Crank shaft journals

as per rule

Dia. of Crank pin

Size of Crank webs

Dia. of thrust shaft under

collars

Dia. of screw

Pitch of screw

No. of blades

State whether moveable

Total surface

No. of Feed pumps

Diameter of ditto

Stroke

Can one be overhauled while the other is at work

No. of Bilge pumps

Diameter of ditto

Stroke

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

When were stern tube, propeller, screw shaft, and all connections examined in dry dock

Is the screw shaft tunnel watertight

Is it fitted with a watertight door

worked from

BOILERS, &c.—

(Letter for record

Total Heating Surface of Boilers

Is forced draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

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 they 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

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

Thickness of plates

crown

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

W1449-0029

DONKEY BOILER— No. One Description Cylindrical Multitubular
Made at Glasgow By whom made J. Dunlop & Co. Ltd. When made 1904 Where fixed Main deck
Working pressure 120 lb tested by hydraulic pressure to 240 lb. No. of Certificate 3312 Fire grate area 11 1/4 Description of safety valves Direct spring
No. of safety valves Two Area of each 3.97 Pressure to which they are adjusted 120 lb. If fitted with easing gear Yes If steam from main boilers can enter the donkey boiler Dia. of donkey boiler 7'-0" Length 8'-0" Material of shell plates Steel Thickness 7/32 Range of tensile strength 27-32 Descrip. of riveting long. seams T.R.L. Dia. of rivet holes 7/8 Whether punched or drilled Drilled Pitch of rivets 4 3/8
Lap of plating 2 1/2 Per centage of strength of joint Rivets 88 Plates 80 Thickness of shell plates 1/16 Radius of do. — No. of Stays to do. 3
Dia. of stays. 2 1/4 Diameter of furnace Top 36" Bottom 5'-2 1/2" Length of furnace 4'-10" Thickness of furnace plates 9/16 Description of joint Welded Thickness of furnace plates 3/4 Stays by 1 1/2" iron screw stays 7 1/2" x 7 1/2" Working pressure of shell by rules 120 lb.
Working pressure of furnace by rules 15 lb. Diameter of uptake 2 1/2" Thickness of uptake plates 7/16 x 3/4 Thickness of water tubes 3/8

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer. J. Dunlop & Co. Ltd.

Dates of Survey while building During progress of work in shops - - - During erection on board vessel - - - 1904 Oct 27, Nov 10, 24.
Total No. of visits 3

Is the approved plan of main boiler forwarded herewith None

" " " donkey " " " Yes

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

The donkey boiler of this vessel has been constructed under special survey, it has been secured on board in a satisfactory manner + in my opinion renders the vessel eligible for the record of D.B. 74. Particulars of Donkey Boiler is forwarded, herewith

It is submitted that this vessel is eligible for THE RECORD. + DB. 11-04

Bab

12.12.04

12.12.04

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27016	10	0	12	Stainless	12	0	0	0	10	0	0	Richardson	Bygone	Ripton 10/10/04
27015	7	0	4	"	11	2	2	0	0	0	0	"	"	"
	17	0	16						18	0	0			
4630	4	0	14	1	0	7	6	10	0	0	4	0	0	Cardiff 17/9/04

3904	60	1	12	34.0.4	60-1" class	Bygone	17/9/04	Cardiff	17/9/04
1700	20	7	13	5.1.7	20-7/8	"	"	"	"
	75	2 1/2	13		75-2 1/2	"	"	"	"

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

E. Williamson.
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

FRI, 16 DEC 1904

Assigned

+ DB. 11.04



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