

REPORT ON MACHINERY.

No. 28421

Date of writing Report

10

When handed in at Local Office

23 SEP 1922

Port of

SUNDERLAND

Received at London

MON. SEP. 25 1922

No. in Survey held at

SUNDERLAND

Reg. Book.

on the

S.S. "BRITISH ADVOCATE"

Date, First Survey

22nd Nov '21

Last Survey

14th Sept 1922

(Number of Visits)

81

Tons

Gross

6993

Net

4151

Master

Built at

Sunderland

By whom built

Sir Jas. Laing & Sons Ltd (1883)

When built

1922

Engines made at

Sunderland

By whom made

Messrs G. Clark & Co Ltd (1125)

when made

1922

Boilers made at

Sunderland

By whom made

Messrs G. Clark & Co Ltd (1125)

when made

1922

Registered Horse Power

Owners

British Tankers Co Ltd

Port belonging to

London

Shaft Horse Power at Full Power

3200

Is Refrigerating Machinery fitted for cargo purposes

NO

Is Electric Light fitted

YES

N.H.P. FOR FEE

647

URBINE ENGINES, &c.

Description of Engines

Paremsus turbines, South Red. Gear

No. of Turbines

One H.P. One L.P.

Diameter of Rotor Shaft Journals, H.P.

4 1/2

L.P.

5 1/2

Diameter of Pinion Shaft

TUR. 4 1/2, H.P. only

Diameter of Journals

4 1/2

Distance between Centres of Bearings

2-2 3/4

Diameter of Pitch Circle

TUR. PIN. H.P. 6.66, L.P. 9.88

Diameter of Wheel Shaft

15 1/2

Distance between Centres of Bearings

6-1 1/2

Diameter of Pitch Circle of Wheel

MAIN 103.685

Width of Face

MAIN 19

Diameter of Thrust Shaft under Collars

16

Diameter of Tunnel Shaft

INTER as per rule 14.1

No. of Screw Shafts

1

Diameter of same

as per rule 16.55

Diameter of Propeller

19-0

Pitch of Propeller

17-9

No. of Blades

3

State whether Moveable

YES

Total Surface

108 sq

Diameter of Rotor Drum, H.P.

2 1/2 x 2 1/2

Thickness at Bottom of Groove, H.P.

1 1/2

L.P.

2

Revs. per Minute at Full Power, Turbine

H.P. 3970 L.P. 266

Propeller

73

ARTICULARS OF BLADING.

	EFFECTIVE	H.P.	NOMINAL	L.P.	EFFECTIVE	ASTERN.
	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
1ST EXPANSION	1 1/2	2-6 1/2	2 ON R + 1 ON CYL	2 1/2	2-6 1/2	4
2ND	1 1/2	2-6 1/2	ONE	2 1/2	2-7 1/4	4
3RD	1 1/2	2-6 1/2	"	2 1/2	2-9 1/2	4
4TH	1 1/2	2-6 1/2	"	3 1/2	3-7	2
5TH	1 1/2	2-6 1/2	"	4 1/2	3-9 1/2	1
6TH	2 1/2	2-6 1/2	"	6 1/2	4-0 1/2	1
7TH	2 1/2	2-6 1/2	"	6 1/2	4-2 3/4	1
8TH	2 1/2	2-6 1/2	"	6 1/2	4-2 3/4	1

No. and size of Feed pumps

1 with 10 1/2 x 8 x 21 Vert at act

1, 2 1/2 Donkey Centrifugal Elec. driven

No. and size of Bilge pumps

2, 6 1/2 x 12

1 Ballast 10 x 12 x 10, 1 1/4 in service 6 x 4 1/2 x 6

No. and size of Bilge suction in Engine Room

3 @ 3 1/2, 2 @ 2" in each side with

In Holds, &c.

2 @ 8" in each cargo hold, 3 @ 2 1/2 to forward dup

Tank top and pump room "hats"

No. of Bilge Injections

1

sizes

11"

Connected to

circulating pump

440

Is a separate Donkey Suction fitted in Engine Room & size

440 3/2

Are all the bilge suction pipes fitted with roses

440

Are the roses in Engine room always accessible

440

Are all connections with the sea direct on the skin of the ship

440

Are they Valves or Cocks

Both

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

440

Are the Discharge Pipes above or below the deep water line

above & below

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

440

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

440

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

440

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

440

Is the Screw Shaft Tunnel watertight

None

Is it fitted with a watertight door

Engines aft

worked from

BOILERS, &c.

(Letter for record)

5

Manufacturers of Steel

John Spencer & Sons

Total Heating Surface of Boilers

8256

Is Forced Draft fitted

440

No. and Description of Boilers

3 Single ended

Working Pressure

200 lbs

Tested by hydraulic pressure to

350 lbs

Date of test

8.3.22

No. of Certificate

3795

Can each boiler be worked separately

440

Area of fire grate in each boiler

oil burning only

No. and Description of Safety Valves to

each boiler

2 Spring valves

Area of each valve

11.04

Pressure to which they are adjusted

205 lbs

Are they fitted with easing gear

440

Smallest distance between boilers or uptakes and bunkers or woodwork

18" fwd 18" Ex.

dia. of boilers

16.0

Length

12.0

Material of shell plates

S

Thickness

1 1/2

Range of tensile strength

28-32

Are the shell plates welded or flanged

No

Descrip. of riveting: cir. seams

Lap all

long. seams

d 1/2 to riv.

Diameter of rivet holes in long. seams

1 3/8

Pitch of rivets

9 5/8

Lap of plates or width of butt straps

2 1/4

Per centages of strength of longitudinal joint

rivets 90

plates 85

Working pressure of shell by rules

201

Size of manhole in shell

12 x 16

Size of compensating ring

8 1/2 x 1 3/2

No. and Description of Furnaces in each Boiler

4 Brighton

Material

S

Outside diameter

3-5 5/8

Length of plain part

top

bottom

Thickness of plates

9 1/2

Description of longitudinal joint

Welded

No. of strengthening rings

Working pressure of furnace by the rules

211

Combustion chamber plates: Material

S

Thickness: Sides

3/4

Back

2 1/2

Top

3/4

Bottom

1 1/2

Pitch of stays to ditto: Sides

10 x 9 1/2

Back

9 1/2 x 7 1/2

Top

10 x 9

If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules

201

Material of stays

S

Diameter at smallest part

1.73

Area supported by each stay

68.5

Working pressure by rules

221

End plates in steam space

Material

S

Thickness

1 1/2

Pitch of stays

19 x 23

How are stays secured

d 1/2 to riv.

Working pressure by rules

208

Material of stays

S

Diameter at smallest part

3.42

Area supported by each stay

437.9

Working pressure by rules

211

Material of Front plates at bottom

S

Thickness

1"

Material of Lower back plate

S

Thickness

1"

Greatest pitch of stays

15 1/2

Working pressure of plate by rules

245

Diameter of tubes

3 1/4

Pitch of tubes

4 1/2 x 4 3/8

Material of tube plates

S

Thickness: Front

1"

Back

1 1/2

Mean pitch of stays

11 1/4 x 8 1/2

Pitch across wide water spaces

14 1/2

Working pressures by rules

216

Girders to Chamber tops: Material

S

Depth and

thickness of girder at centre

7 3/4 x 1 3/4

Length as per rule

3 1/2

Distance apart

9"

Number and pitch of stays in each

2-10"

Working pressure by rules

208

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

SUPERHEATER. Type Robinson Date of Approval of Plan ✓ Tested by Hydraulic Pressure to 400 lb
Date of Test 29.5.22 Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler yes
Diameter of Safety Valve 1 1/2" Pressure to which each is adjusted 206 Is Easing Gear fitted yes

IS A DONKEY BOILER FITTED? YES If so, is a report now forwarded? YES

SPARE GEAR. State the articles supplied: 2 Belts or studs + nuts for each side Rotor bearings, 5% total No each turbine casing joint
2 Therm. oil circ. system, 1 set bearing bushes for Rotor, 1 set pads for turbine thrust block, 1 set pads for nickel thrust main shaft
2 Belts or studs + nuts for each side gear bearings, 5% total No belts + studs + nuts for each gear case joint, 1 set bearing bushes for low speed
gear wheel shaft, 1 set bearing bushes pinion shaft, 10% oil cooler tubes + packings + glands, 1 set bolts + nuts main shaft couplings, 3 main
fuel check valves, 1 propeller shaft, 1 impeller + shaft circ. pump, 1 set dry air pump wd. bucket + valves, 3 propeller blades, 1 set valves
lub. oil pump, 1 bucket + wd. lub. oil pump, 14 P. 11 P. pinion with flexible coupling, 24 condenser tubes 50 ft. Boiler tubes
1 set high pump valves, 1 set aux. fuel pump valves, 1 escape valve opening each side fitted, assorted bolts and nuts, 2 in. of various sizes
1/2 set carbon rings + springs for H.P. prop. Rotor shaft gland, 3 aux. fuel check valves

The foregoing is a correct description.

FOR GEORGE CLARK LIMITED W. G. Spruce Manufacturer.

Dates of Survey while building During progress of work in shops - 19.2.22, 22.4.22, 13.5.22, 18.5.22, 17.6.22, 12.7.22, 22.7.22, 29.7.22, 31.7.22, 2.8.22, 3.8.22, 10.8.22, 11.8.22, 18.8.22, 24.8.22, 25.8.22, 29.8.22, 30.8.22, 31.8.22, 1.9.22, 2.9.22, 3.9.22, 4.9.22, 5.9.22, 6.9.22, 7.9.22, 8.9.22, 9.9.22, 10.9.22, 11.9.22, 12.9.22, 13.9.22, 14.9.22, 15.9.22, 16.9.22, 17.9.22, 18.9.22, 19.9.22, 20.9.22, 21.9.22, 22.9.22, 23.9.22, 24.9.22, 25.9.22, 26.9.22, 27.9.22, 28.9.22, 29.9.22, 30.9.22, 1.10.22, 2.10.22, 3.10.22, 4.10.22, 5.10.22, 6.10.22, 7.10.22, 8.10.22, 9.10.22, 10.10.22, 11.10.22, 12.10.22, 13.10.22, 14.10.22, 15.10.22, 16.10.22, 17.10.22, 18.10.22, 19.10.22, 20.10.22, 21.10.22, 22.10.22, 23.10.22, 24.10.22, 25.10.22, 26.10.22, 27.10.22, 28.10.22, 29.10.22, 30.10.22, 31.10.22, 1.11.22, 2.11.22, 3.11.22, 4.11.22, 5.11.22, 6.11.22, 7.11.22, 8.11.22, 9.11.22, 10.11.22, 11.11.22, 12.11.22, 13.11.22, 14.11.22, 15.11.22, 16.11.22, 17.11.22, 18.11.22, 19.11.22, 20.11.22, 21.11.22, 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9.3.23, 10.3.23, 11.3.23, 12.3.23, 13.3.23, 14.3.23, 15.3.23, 16.3.23, 17.3.23, 18.3.23, 19.3.23, 20.3.23, 21.3.23, 22.3.23, 23.3.23, 24.3.23, 25.3.23, 26.3.23, 27.3.23, 28.3.23, 29.3.23, 30.3.23, 31.3.23, 1.4.23, 2.4.23, 3.4.23, 4.4.23, 5.4.23, 6.4.23, 7.4.23, 8.4.23, 9.4.23, 10.4.23, 11.4.23, 12.4.23, 13.4.23, 14.4.23, 15.4.23, 16.4.23, 17.4.23, 18.4.23, 19.4.23, 20.4.23, 21.4.23, 22.4.23, 23.4.23, 24.4.23, 25.4.23, 26.4.23, 27.4.23, 28.4.23, 29.4.23, 30.4.23, 31.4.23, 1.5.23, 2.5.23, 3.5.23, 4.5.23, 5.5.23, 6.5.23, 7.5.23, 8.5.23, 9.5.23, 10.5.23, 11.5.23, 12.5.23, 13.5.23, 14.5.23, 15.5.23, 16.5.23, 17.5.23, 18.5.23, 19.5.23, 20.5.23, 21.5.23, 22.5.23, 23.5.23, 24.5.23, 25.5.23, 26.5.23, 27.5.23, 28.5.23, 29.5.23, 30.5.23, 31.5.23, 1.6.23, 2.6.23, 3.6.23, 4.6.23, 5.6.23, 6.6.23, 7.6.23, 8.6.23, 9.6.23, 10.6.23, 11.6.23, 12.6.23, 13.6.23, 14.6.23, 15.6.23, 16.6.23, 17.6.23, 18.6.23, 19.6.23, 20.6.23, 21.6.23, 22.6.23, 23.6.23, 24.6.23, 25.6.23, 26.6.23, 27.6.23, 28.6.23, 29.6.23, 30.6.23, 31.6.23, 1.7.23, 2.7.23, 3.7.23, 4.7.23, 5.7.23, 6.7.23, 7.7.23, 8.7.23, 9.7.23, 10.7.23, 11.7.23, 12.7.23, 13.7.23, 14.7.23, 15.7.23, 16.7.23, 17.7.23, 18.7.23, 19.7.23, 20.7.23, 21.7.23, 22.7.23, 23.7.23, 24.7.23, 25.7.23, 26.7.23, 27.7.23, 28.7.23, 29.7.23, 30.7.23, 31.7.23, 1.8.23, 2.8.23, 3.8.23, 4.8.23, 5.8.23, 6.8.23, 7.8.23, 8.8.23, 9.8.23, 10.8.23, 11.8.23, 12.8.23, 13.8.23, 14.8.23, 15.8.23, 16.8.23, 17.8.23, 18.8.23, 19.8.23, 20.8.23, 21.8.23, 22.8.23, 23.8.23, 24.8.23, 25.8.23, 26.8.23, 27.8.23, 28.8.23, 29.8.23, 30.8.23, 31.8.23, 1.9.23, 2.9.23, 3.9.23, 4.9.23, 5.9.23, 6.9.23, 7.9.23, 8.9.23, 9.9.23, 10.9.23, 11.9.23, 12.9.23, 13.9.23, 14.9.23, 15.9.23, 16.9.23, 17.9.23, 18.9.23, 19.9.23, 20.9.23, 21.9.23, 22.9.23, 23.9.23, 24.9.23, 25.9.23, 26.9.23, 27.9.23, 28.9.23, 29.9.23, 30.9.23, 31.9.23, 1.10.23, 2.10.23, 3.10.23, 4.10.23, 5.10.23, 6.10.23, 7.10.23, 8.10.23, 9.10.23, 10.10.23, 11.10.23, 12.10.23, 13.10.23, 14.10.23, 15.10.23, 16.10.23, 17.10.23, 18.10.23, 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