

REPORT ON MACHINERY

No. 6185

Received at London Office

TUE. 25 JUL. 1922

Date of writing Report 12 July 1922 When handed in at Local Office

Port of PLYMOUTH

No. in Survey held at PLYMOUTH

Date, First Survey 6 April 1921 Last Survey 4 July 1922

Reg. Book.

(Number of Visits 38)

on the Steel & Iron "Nassa"

Tons Gross 5825.39

Net 3342.25

When built 1922-7

Master

Built at Devonport

By whom built Am. Dockyard & Shipbuilding Co. Ltd.

Engines made at

Devonport S.Y.

By whom made

E.M. Department Am. Dockyard

when made

1922-7

Boilers made at

Chatham S.Y.

By whom made

E.M. Dept. of the Dockyards

when made

1922

Registered Horse Power

2860

Owners

Anglo-Saxon Petroleum Co.

Port belonging to

London

Nom. Horse Power as per Section 28

522.5

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

Yes

ENGINES, &c.—Description of Engines Inverted direct acting S.C. Triple Exp. No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders

27-45-74

Length of Stroke

48

Revs. per minute

78

Dia. of Screw shaft

as per rule 14.8

Material of screw shaft

Forged Steel

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

the propeller boss

Yes

If the liner is in more than one length are the joints burned

Yes

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

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

Intermediate

as per rule 1339

Dia. of Crank shaft journals

as per rule 14.06

Dia. of Crank pin

14.4

Size of Crank webs

9.4

Dia. of thrust shaft under

lars 14.2

Dia. of screw

17.9

Pitch of Screw

16.9

No. of Blades

4

of Feed pumps

2

Diameter of ditto

4

Stroke

26

Can one be overhauled while the other is at work

Yes

of Bilge pumps

2

Diameter of ditto

4.2

Stroke

26

Can one be overhauled while the other is at work

Yes

of Donkey Engines

8

Sizes of Pumps

See list attached

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

See list attached

In Holds, &c.

80

Engine Room

See list attached

of Bilge Injections

On sizes 10

Connected to circulating pump

Yes

Is a separate Donkey Suction fitted in Engine room & size

Yes

3.2

Are the roses in Engine room always accessible

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

Yes

Are they Valves or Cocks

Both

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

Yes

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

Yes

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

Yes

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

Yes

How are they protected

Wood ceiling fitted when bunkers

are used for coal

Yes

all above except main and discharge

Yes

at pipes are carried through the bunkers

Oil fuel suction pipes

How are they protected

Wood ceiling fitted when bunkers

are used for coal

Yes

all above except main and discharge

Yes

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

Yes

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

Yes

the Screw Shaft Tunnel watertight

no tunnel

Is it fitted with a watertight door

worked from

PLERS, &c.—(Letter for record

(S)

Manufacturers of Steel

Messrs. Bliville & Co. Ltd. Wolverhampton

al Heating Surface of Boilers

7668

Is Forced Draft fitted

Yes

No. and Description of Boilers

35B 3-main - 1 Donkey

Cylindrical - Return tubes

No. of Certificate

Working Pressure

180 lb per sq. in.

Tested by hydraulic pressure to

320 lb per sq. in.

Date of test

24.10.21

No. of Certificate

205-206 PLY

each boiler be worked separately

Yes

Area of fire grate in each boiler

63.3 sq. ft.

No. and Description of Safety Valves to

Are they fitted with easing gear

Yes

Are they fitted with easing gear

boiler 2 in. dia. one boy 3 1/2 in. dia.

Area of each valve

9.62 sq. in.

Pressure to which they are adjusted

180 lb per sq. in.

Are they fitted with easing gear

Yes

Are they fitted with easing gear

least distance between boilers or uptakes and bunkers or woodwork

2'-1"

Mean dia. of boilers

15'-6"

Length

11'-6"

Material of shell plates

Steel

thickness

1/4"

Range of tensile strength

28-32 tons

Are the shell plates welded or flanged

flanged

Descrip. of riveting: cir. seams

Double zig-zag

seams

Double zig-zag

Diameter of rivet holes in long. seams

1 1/8"

Pitch of rivets

9/8"

Lap of plates or width of butt straps

19 1/2"

centages of strength of longitudinal joint

rivets 88.3

Working pressure of shell by rules

182.2

Size of manhole in shell

16" x 12"

No. and Description of Furnaces in each boiler

3 in. N. Deighton & Co. Ltd.

of compensating ring

No

No. and Description of Furnaces in each boiler

3 in. N. Deighton & Co. Ltd.

Material

Steel

Outside diameter

4'-2 3/16"

length of plain part

top

Thickness of plates

crown 19/32"

Description of longitudinal joint

none

No. of strengthening rings

none

working pressure of furnace by the rules

183.5

Combustion chamber plates: Material

Steel

Thickness: Sides

25/32"

Back

25/32"

ch of stays to ditto: Sides

9 x 8 1/4"

Back

8 x 9 1/2"

Top

9 x 10 1/8"

If stays are fitted with nuts or riveted heads

Nuts at top

material of stays

Steel

Area at smallest part

1.79 sq. in.

Area supported by each stay

8 1/4" (max)

Working pressure by rules

193.4

material

Steel

Thickness

1 1/8"

Pitch of stays

2 1/4" x 20 1/2"

How are stays secured

Nuts

area at smallest part

8.29 sq. in.

Area supported by each stay

4.46 sq. in.

Working pressure by rules

186

Material of Front plates at bottom

Steel

thickness

3 1/8"

Material of Lower back plate

Steel

Thickness

1 1/8"

Greatest pitch of stays

13 1/8"

meter of tubes

2 3/4"

Pitch of tubes

4 x 3 1/8"

Material of tube plates

Steel

Thickness: Front

3 1/8"

ch across wide water spaces

13 1/8"

Working pressures by rules

181

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

thickness of girder at centre

10" x 7 1/8" x 2"

Length as per rule

35 1/32"

Distance apart

10 7/8"

Number and pitch of stays in each

3 in. N. - 9"

working pressure by rules

187 1/8"

Steam dome: description of joint to shell

None

% of strength of joint

100

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

ch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER.

Type

not fitted

Date of Approval of Plan

Tested by Hydraulic Pressure to

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Is Easing Gear fitted

Lloyd's Register

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Pressure to which each is adjusted

Is Easing Gear fitted

Lloyd's Register

W 493

F 009

Information

