

## REPORT ON MACHINERY.

Port of

Hull

FRI. FEB 2 1900

Received at London Office

13

in Survey held at

Hull

Date, first Survey

Aug. 31/99

Last Survey

Jan 17<sup>th</sup> 1900

took

up on the

Steam Trawler "Linnel"

(Number of Visits 16)

Tons { Gross 200

Net 72

When built 1900

Built at

Hull

By whom built

Charles C. L.

made at

Hull

By whom made

Charles C. L.

when made

1900

made at

Hull

By whom made

Charles C. L.

when made

1900

rated Horse Power

52

Owners

Pioneer Stra. Fishing Co. L.

Port belonging to

Grimsby

Horse Power as per Section 28

62

Is Refrigerating Machinery fitted

No

Is Electric Light fitted

No

NES, &amp;c.—Description of Engines

Triple Compound

No. of Cylinders

Three

No. of Cranks

3

of Cylinders

10 1/4" 20" 32"

Length of Stroke

23"

Revs. per minute

6.339

Dia. of Screw shaft

as per rule 6 3/4"

Lgth. of stern bush

27 1/2"

Tunnel shaft

as per rule 6 3/4"

Dia. of Crank shaft journals

as per rule 6 3/4"

Dia. of Crank pin

6 1/2"

Size of Crank webs

6 1/2" x 4 1/2"

Dia. of thrust shaft under

6 3/8"

Dia. of screw

8" 2"

Pitch of screw

11" 0"

No. of blades

4

State whether moveable

no

Total surface

24 sq

Feed pumps

one

Diameter of ditto

2 1/2"

Stroke

10"

Can one be overhauled while the other is at work

—

Bilge pumps

one

Diameter of ditto

2 1/2"

Stroke

10"

Can one be overhauled while the other is at work

—

Donkey Engines

one

Sizes of Pumps

2 1/2" x 5" x 5"

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

In Holds, &amp;c.

one 2" 6" slush well and

—

Engine Room

Two

1 1/2"

to forward bilge 2"

—

bilge injections

one

sizes 3 1/2"

Connected to condenser, &amp;c.

Cond

Is a separate donkey suction fitted in Engine room &amp; size

2 1/2" x 5 1/2"

—

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

—

connections with the sea direct on the skin of the ship

yes

Are they Valves or Cocks

Both

—

ey 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

above

—

ey 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

yes

—

pipes are carried through the bunkers

Shushwill suction

How are they protected

wood casing

—

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

—

—

—

—

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

now new

Is the screw shaft tunnel watertight

—

—

—

fitted with a watertight door

—

—

—

—

—

ERS, &amp;c.—

(Letter for record

S)

Total Heating Surface of Boilers

1050 sq

Is forced draft fitted

No

—

nd Description of Boilers

1

Cylindrical Multitubular

Working Pressure

200

Tested by hydraulic pressure to

400

—

of test

13/1/00

Can each boiler be worked separately

—

Area of fire grate in each boiler

34.3

No. and Description of safety valves to

—

—

boiler

2

Spring loaded

Area of each valve

3.140

Pressure to which they are adjusted

205

Are they fitted with easing gear

yes

—

least distance between boilers or uptakes and bunkers or woodwork

7"

Mean dia. of boilers

135.9375"

Length

9' 9"

Material of shell plates

Steel

—

ness

132"

Range of tensile strength

29.32

Are they welded or flanged

—

Descrip. of riveting: cir. seams

D.R. lap

long. seams

T.R. dbl. Shaps

—

ter of rivet holes in long. seams

1 1/16"

Pitch of rivets

8.9.6

7 1/8"

Lap of plates or width of butt straps

15 1/2"

—

ntages of strength of longitudinal joint

rivets

8.9.6

Working pressure of shell by rules

204

Size of manhole in shell

16" x 12"

—

f compensating ring

2'-7" Dia x 1 1/2"

No. and Description of Furnaces in each boiler

2

Hobniss

Material

Steel

Outside diameter

39.625"

—

h of plain part

top

16"

Thickness of plates

crown 2 1/2"

Description of longitudinal joint

welded

No. of strengthening rings

4

—

ing pressure of furnace by the rules

205

Combustion chamber plates: Material

Steel

Thickness: Sides

1 1/16"

Back

1 1/16"

Top

1 1/16"

Bottom

1 1/16"

—

of stays to ditto: Sides

8 1/2" x 7 1/4"

Back

8" x 7 1/4"

Top

8 1/2" x 7 1/2"

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

204

—

rial of stays

Steel

Diameter at smallest part

1.480"

Area supported by each stay

51.531

Working pressure by rules

229

End plates in steam space:

—

—

rial

Steel

Thickness

1 1/2"

Pitch of stays

15 3/8" x 15"

How are stays secured

D nuts

Working pressure by rules

206

Material of stays

Steel

—

er at smallest part

5.157"

Area supported by each stay

230.625"

Working pressure by rule

206

Material of Front plates at bottom

Steel

—

—

—

—

—

ness

32"

Material of Lower back plate

Steel

Thickness

1 1/16"

Greatest pitch of stays

12 1/2"

Working pressure of plate by rules

200

—

—

—

eter of tubes

3 1/4"

Pitch of tubes

4.625"

Material of tube plates

Steel

Thickness: Front

3 3/4"

Back

3 1/4"

Mean pitch of stays

9 1/4"

—

across wide water spaces

13 1/4"

Working pressures by rules

203

Girders to Chamber tops: Material

Steel

Depth and

—

—

—

—

—

—

ness of girder at centre



DONKEY BOILER- No. Description  
Made at By whom made When made Where fixed  
Working pressure tested by hydraulic pressure to No. of Certificate Fire grate area Description of safety valves  
No. of safety valves Area of each Pressure to which they are adjusted If fitted with easing gear If steam from main  
enter the donkey boiler Dia. of donkey boiler Length Material of shell plates Thickness Range  
strength Descrip. of riveting long. seams Dia. of rivet holes Whether punched or drilled Pitch of rivet  
Lap of plating Per centage of strength of joint Rivets 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 Desc  
joint Thickness of furnace crown plates Stayed by Working pressure of shell by rules  
Working pressure of furnace by rules Diameter of uptake Thickness of uptake plates Thickness of water tubes

SPARE GEAR. State the articles supplied: Two top and bolts. Two bottom and bolts  
Two main bearing bolts. One set of coupling bolts.  
One set of feed pump valves. One set of bilge pump valves  
One set of chuck valves. Safety valve spring &c. &c.

The foregoing is a correct description,

EARLE'S  
SHIPBUILDING & ENGINEERING CO. LIMITED  
A. E. Leaton  
GENERAL MANAGER & DIRECTOR

Dates During progress of work in shops - 1899: Aug 31. Sep 13. 21 Oct 9. 25 Nov 8. 20 Dec. 12. 13. 18 1900: Jan 10. 11  
of Survey while building During erection on board vessel - Jan 15. 16. 17.  
Total No. of visits 16

Is the approved plan of main boiler forwarded herewith

General Remarks (State quality of workmanship, opinions as to class, &c.) Workmanship good.  
The engines and boilers of this vessel  
have been constructed under Special Survey and  
on board in accordance with the Society's Rules.  
are now in my opinion in a safe working condition  
and the case is respectfully submitted for the  
notification + L.M.C. 1.10900. in the Register

+ L.M.C. 1.00.

£2.2.00 £2.2.00

The amount of Entry Fee. £ 1 : :  
Special £ 9 : 6 :  
Donkey Boiler Fee £ : : :  
Travelling Expenses (if any) £ : : :  
When applied for, 30/11/900  
When received, 25/5/01

Wm E. Hammett  
Engineer Surveyor to Lloyd's Register of British & Foreign Steamships

Committee's Minute TUES. 6 FEB 1900  
Assigned + L.M.C. 1.00  
MACHINERY CERTIFICATE WRITTEN, FRI. 1 MAR 1901  
Lloyd's Register Foundation