

Rpt. 4.

## REPORT ON MACHINERY.

No. 36459  
15 OCT 1925

Received at London Office

Date of writing Report

19

When handed in at Local Office

14/10/25 Port of

Hull

No. in Survey held at  
Reg. Book.

Hull

Date, First Survey

16/4/25

Last Survey

8-10-

1925.

on the

steam trawler

"PELTON"

(Number of Visits

22

Gross 357.65

Net 140.63

When built 1925

Master

Built at

Beverley

By whom built

Cook, Wilton &amp; Gemmell Ltd.

Engines made at

Hull

By whom made

C.D. Holmes &amp; Co. Ltd. (n. 1285)

when made

1925.

Boilers made at

Hull

By whom made

C.D. Holmes &amp; Co. Ltd.

-d-

when made

1925.

Registered Horse Power

Owners

77 J. Ross Ltd.

Port belonging to

Hull

Nom. Horse Power as per Section 28

96

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

## ENGINES, &amp;c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks 3

Dia. of Cylinders

13-23-37

Length of Stroke

26

Revs. per minute

Dia. of Screw shaft

as per rule

7.7

Material of

steel

Is 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

in 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

If two

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

Length of stern bush

36"

Dia. of Tunnel shaft

as per rule

6.89

Dia. of Crank shaft journals

as per rule

7.24

Dia. of Crank pin

7.2

Size of Crank webs

14.4 x 4.8

Dia. of thrust shaft under

collars

No. of Feed pumps

1

Diameter of ditto

2 5/8

Stroke

14 3/4

Can one be overhauled while the other is at work

No. of Bilge pumps

1

Diameter of ditto

2 5/8

Stroke

14 3/4

Can one be overhauled while the other is at work

No. of Donkey Engines

1 &amp; 1

Sizes of Pumps

6 x 4 1/4 x 6 &amp; 3 1/2

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

In Engine Room

2 @ 2" dia.

In Holds, &amp;c.

one 2" from each

Compartment.

No. of Bilge Injections

1

sizes

3 1/2

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room &amp; size

yes

3"

Are all the bilge suction pipes fitted with roses

yes

Are the roses in Engine room always accessible

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

yes

Are they Valves or Cocks

both

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

above

Are they 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

What pipes are carried through the bunkers

forward suction

How are they protected

wood casings

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

yes

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

yes

Is the Screw Shaft Tunnel watertight

Is it fitted with a watertight door

worked from

## BOILERS, &amp;c.—(Letter for record

S)

Manufacturers of Steel

Port Talbot Steel Co. Ltd.

15B.

Total Heating Surface of Boilers

1698

Is Forced Draft fitted

no

No. and Description of Boilers

One

S.E. main

Working Pressure

200 lbs

Tested by hydraulic pressure to

350 lbs

Date of test

14-7-25

No. of Certificate

3559

Can each boiler be worked separately

Area of fire grate in each boiler

49.2 sq. ft.

No. and Description of Safety Valves to

each boiler

2 spring loaded

Area of each valve

49.0

Pressure to which they are adjusted

200 lbs

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

8"

INT.

Mean dia. of boilers

14-0

Length

10-8

Material of shell plates

S

Thickness

1 9/32

Range of tensile strength

28/32

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

DR

long. seams

T.R.D.B.S.

Diameter of rivet holes in long. seams

1 9/32

Pitch of rivets

8 9/16

Lap of plates or width of butt straps

18 13/16

Per centages of strength of longitudinal joint

rivets

90.8

plate

85.0

Working pressure of shell by rules

200

Size of manhole in shell

16 x 12

Size of compensating ring

34 x 27 x 1 9/32

No. and Description of Furnaces in each boiler

3 plain

Material

S

Outside diameter

41"

Length of plain part

top

76

Thickness of plates

crown

13"

bottom

16"

Description of longitudinal joint

welded

No. of strengthening rings

yes

Working pressure of furnace by the rules

219

Combustion chamber plates: Material

S

Thickness: Sides

3/4

Back

23/32

Top

3/4

Bottom

3/4

Pitch of stays to ditto: Sides

9 x 8 3/4

Back

9 x 8 1/2

Top

9 x 8 3/4

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

230

Material of stays

S

Area at smallest part

2.070

Area supported by each stay

78.750

Working pressure by rules

230

End plates in steam space:

Material

S

Thickness

1 3/16

Pitch of stays

18"

How are stays secured

DN 9 W

Working pressure by rules

220

Material of stays

S

Area at smallest part

750

Area supported by each stay

3240

Working pressure by rules

275

Material of Front plates at bottom

S

Thickness

15/16

Material of Lower back plate

S

Thickness

29/32

Greatest pitch of stays

14 x 8 3/4

Working pressure of plate by rules

228

Diameter of tubes

3 1/2

Pitch of tubes

4 2/8

Material of tube plates

S

Thickness: Front

15/16

Back

2/8

Mean pitch of stays

11.2"

Pitch across wide water spaces

13 3/4

Working pressures by rules

212

Girders to Chamber tops: Material

S

Depth and

thickness of girder at centre

10 1/2 x 1 3/4

Length as per rule

36 2/32

Distance apart

9"

Number and pitch of stays in each

3 @ 8 3/4

Working pressure by rules

210

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

## SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

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

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

W1137

0033



IS A DONKEY BOILER FITTED?

no

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

Two top end bolts & nuts; 2 bottom end bolts & nuts; 2 main bearing bolts & nuts; Set of coupling bolts & nuts; Valves for air, feed, bilge, & donkey pumps. Main & donkey check valves; safety valve spring, Impeller spindle.

The foregoing is a correct description,

For CHARLES D. HOLMES & Co. LTD.

Manufacturer.

Dates of Survey while building  
During progress of work in shops -- 1925: - Apr 16. 21. 29 May 7. 11. 13. 27. Jun 9. 19. 30. Jul 7. 14. 20. 28. 29.  
During erection on board vessel -- Aug 13. Sep 28. 30. Oct 2. 5. 6. 8  
Total No. of visits 22

Is the approved plan of main boiler forwarded herewith no

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 30-6-25 Slides 7-7-25 Covers 30-6-25 Pistons 7-7-25 Rods 29-7-25  
Connecting rods 29-7-25 Crank shaft 14-7-25 Thrust shaft 14-7-25 Tunnel shafts ✓ Screw shaft 14-7-25 Propeller 14-7-25  
Stern tube 14-7-25 Steam pipes tested 30-9-25 Engine and boiler seatings 29-7-25 Engines holding down bolts 28-9-25  
Completion of pumping arrangements 8-10-25 Boilers fixed 28-9-25 Engines tried under steam 6-10-25  
Completion of fitting sea connections 29-7-25 Stern tube 29-7-25 Screw shaft and propeller 29-7-25  
Main boiler safety valves adjusted 6-10-25 Thickness of adjusting washers F.  $\frac{9}{32}$  A.  $\frac{5}{16}$   
Material of Crank shaft 169 JHM Identification Mark on Do. 169 JHM Material of Thrust shaft Steel Identification Mark on Do. 169 JHM  
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Steel Identification Marks on Do. 169 JHM  
Material of Steam Pipes S.D. Copper, 4" bore, 6 SW.G. Test pressure 400 lbs per sq. in.

Is an installation fitted for burning oil fuel no

Is the flash point of the oil to be used over 150°F. ✓

Have the requirements of Section 49 of the Rules been complied with ✓

Is this machinery duplicate of a previous case yes If so, state name of vessel Lord Mountbatten

General Remarks (State quality of workmanship, opinions as to class, &c. The engines & boiler of this vessel have been built under special survey & in accordance with the approved plans & the Rules of this Society. The materials and workmanship are good. The machinery has been satisfactorily fitted on board, tried under working conditions & found good. The steam & feed pipes have been tested by hydraulic pressure as required by the Rules. The safety valves have been adjusted under steam & tried for accumulation. The machinery is eligible in my opinion to have the record - LMC 10.25 in the Register Book.

The approved plan of boiler & steel invoices were despatched with Hull Report No. 36453 on duplicate boiler 1286.

It is submitted that  
this vessel is eligible for  
THE RECORD. + LMC 10.25. CL.

The amount of Entry Fee ... £ 2 : -  
Special ... £ 24 : -  
Donkey Boiler Fee ... £ : -  
Travelling Expenses (if any) £ : -

When applied for,

14/10/25

When received,

15/10/25

P. Fitzgerald.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned

FRI. 16 OCT 1925

+ LMC 10.25

C.L.



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Foundation