

REPORT ON MACHINERY.

Date of writing Report 15-1-26 When handed in at Local Office

15/1/26

Received at London Office 20 JAN 1926

Port of

Hull

No. in Survey held at
Reg. Book.

Hull

Date, First Survey

3-9-25

Last Survey

5-1-

19-26

on the Steam Trawler "DAIRYCOATES"

(Number of Visits 23)

Gross 350

Net 141

Master

Built at

Selby

By whom built

Cochrane & Sons Ltd (No. 988) When built 1926.

Engines made at

Hull

By whom made

C.D. Holmes & Co. Ltd. No. 1291.

when made

1926.

Boilers made at

Hull

By whom made

C.D. Holmes & Co. Ltd. No. 1291.

when made

1926.

Registered Horse Power

Owners. City Steam Fishing Co. Ltd.

Port belonging to

Hull

Nom. Horse Power as per Section 28

96.95

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

ENGINES, &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 screw shaft

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

yes

If two

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

yes

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

7.2

Dia. of screw

9-9

Pitch of Screw

11-0

No. of Blades

4

State whether moveable

no

Total surface

34 g

No. of Feed pumps

one

Diameter of ditto

2.5

Stroke

14.4

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

one

Diameter of ditto

2.5

Stroke

14.4

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

one

Sizes of Pumps

6 x 4.4 x 6 + 1 gton

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

In Engine Room 2 @ 2" + 1-3" gton

In Engine Room

2 @ 2"

+ 1-3" gton

In Holds, &c.

1 @ 2" in each compartment

No. of Bilge Injections

1

sizes

3.2

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room & 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 casing

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

yes

Is it fitted with a watertight door

yes

worked from

yes

BOILERS, &c.—(Letter for record

S)

Manufacturers of Steel

Phoenix Act. Houlder Verein

Total Heating Surface of Boilers

164.9 g

Is Forced Draft fitted

no

No. and Description of Boilers

one single ended

Working Pressure

200

Tested by hydraulic pressure to

350 lb.

Date of test

24-11-25

No. of Certificate

3578

Can each boiler be worked separately

yes

Area of fire grate in each boiler

49.2 g

No. and Description of Safety Valves to

each boiler

2 spring loaded

Area of each valve

4.9 g

Pressure to which they are adjusted

200 lb.

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

alt 7"

Mean dia. of boilers

11.0"

Length

10-8"

Material of shell plates

S

Thickness

1.9"

Range of tensile strength

28/32 ton

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"

Pitch of rivets

8.9"

Length 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

201

Size of manhole in shell

16 x 12"

15B.

Size of compensating ring

34 x 27 x 1.9"

No. and Description of Furnaces in each boiler

3 plain

Material

S

Outside diameter

41

Length of plain part

top 7.6

bottom 6.9

Thickness of plates

crown 1.3"

bottom 1.6"

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 8.2"

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

2.07

Area supported by each stay

78.3/4"

Working pressure by rules

230

End plates in steam space:

Material

S

Thickness

1.3"

Pitch of stays

18"

How are stays secured

DNW

Working pressure by rules

220

Material of stays

S

Area at smallest part

7.50

Area supported by each stay

324.0"

Working pressure by rules

275

Material of Front plates at bottom

S

Thickness

1.5"

Material of Lower back plate

S

Thickness

2.9"

Greatest pitch of stays

14 x 8.3/4"

Working pressure of plate by rules

228

Diameter of tubes

3.2"

Pitch of tubes

4.8"

Material of tube plates

S

Thickness: Front

1.5"

Back

2.8"

Mean pitch of stays

9.3/4"

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

9.2"

13/4"

Length as per rule

36.3/16"

Distance apart

9"

Number and pitch of stays in each

Working pressure by rules

210

Steam dome: description of joint to shell

yes

% of strength of joint

Diameter

yes

Thickness of shell plates

-

Material

-

Description of longitudinal joint

-

Diam. of rivet holes

-

Pitch of rivets

yes

Working pressure of shell by rules

A

Crown plates

-

Thickness

-

How stayed

-

SUPERHEATER. Type

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

Yes

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 pumps. Main & donkey check valves. Safety valve spring. Centrifugal pump impeller & spindle. Valves for donkey pump.

The foregoing is a correct description,

For CHARLES D. HOLMES & Co. LTD

Harold & Sheardown.

Manufacturer.

Dates of Survey while building

During progress of work in shops --
During erection on board vessel --
Total No. of visits

1925:— Sep 3. 8. 15. 18. 22. 29 Oct 8. 9. 13. 15. 21. Nov 2. 9. 12. 17. 19. 24
Dec 16. 21. 22. 29 31. 1926: Jan 5
23

Is the approved plan of main boiler forwarded herewith

yes

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 8-10-25 Slides 9-11-25 Covers 8-10-25. Pistons 9-11-25 Rods 9-11-25

Connecting rods 9-11-25 Crank shaft 2-11-25 Thrust shaft 2-11-25 Tunnel shafts ✓ Screw shaft 29-9-25 Propeller 29-9-25

Stern tube 29-9-25 Steam pipes tested 22-12-25 Engine and boiler seatings 15-10-25 Engines holding down bolts 21-12-25

Completion of pumping arrangements 5-1-26 Boilers fixed 21-12-25. Engines tried under steam 31-12-25

Completion of fitting sea connections 15-10-25 Stern tube 15-10-25 Screw shaft and propeller 15-10-25.

Main boiler safety valves adjusted 31-12-25 Thickness of adjusting washers F $\frac{11}{32}$ A $\frac{3}{8}$ B.

Material of Crank shaft Steel Identification Mark on Do. 186 P.F. Material of Thrust shaft Steel Identification Mark on Do. 186 P.F.

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Steel Identification Marks on Do. 186 P.F.

Material of Steam Pipes S.D. Copper. 4 dia. 6 swg. Test pressure 400 lb 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

Seulerater ✓

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 & 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 to Rule requirements. The safety valves have been adjusted under steam & tested for accumulation. The machinery is eligible in my opinion to have the record + LMC 1.26. C.L. in the Register Book.

Forge marks on shafting.

Screw shaft:— 12349 K.H.

Thrust - 12361 K.H.

Crank pins 12354 K.H.

Crank shaft journals 12358 K.H.

Forging reports will be forwarded with later reports.

It is submitted that this vessel is eligible for THE RECORD + LMC 1.26. C.L.

The amount of Entry Fee ... £ 2 : 0 : 0
Special ... £ 24 : 0 : 0
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 19/1/1926
When received, 22/2/26

P. Fitzgibbon.

Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 22 JAN 1926

Assigned

+ L.M.C. 1.26
C.L.

CERTIFICATE WRITTEN

TUES. 9 MAR 1926



Lloyd's Register Foundation