

REPORT ON MACHINERY.

No. 17250

Port of Hull

Received at London Office

MUN. 16 OCT 1905

No. in Survey held at Hull

Reg. Book.

Date, first Survey

Apr 11th

Last Survey

Oct 6th 1905

642 on the Screw Trawler "Maud"

(Number of Visits 29)

Gross 223

Net 79

When built 1905

Master

Built at

Goole

By whom built

Goole S.B. & R. Co.

Engines made at

Hull

By whom made

Barley's S.B. & Co. Ltd.

when made 1905

Boilers made at

do

By whom made

do

when made 1905

Registered Horse Power

Owners J. Mares & Son Ltd.

Port belonging to Fleetwood

Nom. Horse Power as per Section 28

64

Is Refrigerating Machinery fitted for cargo purposes

No

Is Electric Light fitted

No

ENGINES, &c.—Description of Engines

Triple

No. of Cylinders 3

No. of Cranks 3

Dia. of Cylinders 12" 20" 32" Length of Stroke 24" Revs. per minute 112

Dia. of Screw shaft as per rule 6.95

Material of screw shaft

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

✓

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

✓

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

✓

Length of stern bush 2'-8"

Dia. of Tunnel shaft as per rule 6.19

Dia. of Crank shaft journals as per rule 6.3

Dia. of Crank pin 6 3/4" Size of Crank webs 3 1/4 x 4 1/4" Dia. of thrust shaft under

collars 6 3/4" Dia. of screw 8'-6" Pitch of screw 11'-0" No. of blades 4 State whether moveable

No

Total surface 26 sq. ft.

No. of Feed pumps 1 Diameter of ditto 2 1/2" Stroke 10" Can one be overhauled while the other is at work

✓

No. of Bilge pumps 1 Diameter of ditto 2 1/2" Stroke 10" Can one be overhauled while the other is at work

✓

No. of Donkey Engines One Sizes of Pumps 4" x 2 3/4" x 4" No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room One 2" dia. In Holds, &c. Three 2 1/2" dia

Ejector suction from engine bilge & holds & discharge on deck

No. of bilge injections 1 sizes 3 1/2" Connected to condenser, or to circulating pump

Cond.

Is a separate donkey suction fitted in Engine room & sized 2 1/2" ejector

Are 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

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

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

What pipes are carried through the bunkers

Hold 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

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

Before launch

Is the screw shaft tunnel watertight

Is it fitted with a watertight door

✓

worked from

✓

BOILERS, &c.—

(Letter for record

(5)

Total Heating Surface of Boilers

1110 sq. ft. Is forced draft fitted

No

No. and Description of Boilers One S.E. type Hull

Working Pressure 180 lbs

Tested by hydraulic pressure to 360 lbs

Date of test 19.9.05 Can each boiler be worked separately

✓

Area of fire grate in each boiler

33 sq. ft. No. and Description of safety valves to

each boiler Two direct spring Area of each valve 3.9" Pressure to which they are adjusted 183 lbs

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork 6 1/2" Mean dia. of boilers 12'-0" Length 10'-0" Material of shell plates

Thickness 1" Range of tensile strength 28-32 Are they welded or flanged

No

Descrip. of riveting: cir. seams

BR Lap

long. seams

BR S

5 Rivets

Diameter of rivet holes in long. seams 1" Pitch of rivets 6 1/8" Lap of plates or width of butt straps 14 1/2"

Per centages of strength of longitudinal joint rivets 85.6 plate 85.3 Working pressure of shell by rules 182 lbs

Size of manhole in shell

16" x 12"

Size of compensating ring 2'-6" x 2'-4" x 1" No. and Description of Furnaces in each boiler Two plain

Material

Steel

Outside diameter 3'-5"

Length of plain part top 6'-4" bottom 5'-9" Thickness of plates crown 3/4" bottom 3/4" Description of longitudinal joint

welded

No. of strengthening rings

✓

Working pressure of furnace by the rules 181 lbs Combustion chamber plates: Material

Steel

Thickness: Sides

5/8"

Back

5/8"

Top

5/8"

Bottom

Pitch of stays to ditto: Sides 8" x 7 1/2" Back 8 1/4" x 7" Top 8" x 7 1/2" If stays are fitted with nuts or riveted heads

Nuts

Working pressure by rules 224 lbs

Material of stays Steel Diameter at smallest part 1 3/8" Area supported by each stay 60"

Working pressure by rules

197 lbs

End plates in steam space:

Material

Steel

Thickness

Diameter at smallest part 2 7/8" Area supported by each stay 248"

Working pressure by rules

207 lbs

Material of Front plates at bottom

Steel

Thickness

2 3/4"

Greatest pitch of stays

16" x 11 1/2"

Diameter of tubes 3 1/4" Pitch of tubes 5" x 4 1/2" Material of tube plates

Steel

Thickness: Front

7/8"

Back

1 1/16"

Mean pitch of stays

10" x 9 1/2"

Pitch across wide water spaces 13 1/2" Working pressures by rules 183 lbs

Girders to Chamber tops: Material

Steel

Depth and

thickness of girder at centre

8 1/2" x 1 1/4"

Length as per rule

2'-8 1/2"

Distance apart 8" Number and pitch of Stays in each

Working pressure by rules 195 lbs Superheater or Steam chest; how connected to boiler

None

Can the superheater be shut off and the boiler worked

separately

✓

Diameter

✓

Length

✓

Thickness of shell plates

✓

Material

✓

Description of longitudinal joint

✓

Diam. of rivet

holes

✓

Pitch of rivets

✓

Working pressure of shell by rules

✓

Diameter of flue

✓

Material of flue plates

✓

Thickness

✓

If stiffened with rings

✓

Distance between rings

✓

Working pressure by rules

✓

End plates: Thickness

✓

How stayed

Working pressure of end plates

✓

Area of safety valves to superheater

✓

Are they fitted with easing gear

✓

Lloyd's Register

Foundation

W840 - 0075

[illegible]

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 boilers can enter the donkey boiler	Dia. of donkey boiler	Length
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating
Per centage of strength of joint	Rivets	Plates	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	Description of 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 + two bottom-end connecting rod bolts + nuts. Two main bearing bolts + nuts. One set of coupling bolts + nuts. One set of feed + bilge pump valves. Main + donkey feed check valves. Assorted bolts + nuts &c.

The foregoing is a correct description,

F. J. Falgout Manufacturer.

SECRETARY

1905:- Apr 11. 25. 28. May 11. 18. 22. 25. 31 Jun 2. 7. 14. 15. 19. 22. 28.

Dates of Survey while building { During progress of work in shops - - }
{ During erection on board vessel - - } July 3. 6. 18. 21. 28 Aug 16. Sep 1. 5. 14. 19. 22. 25. 27 Oct 6.

Total No. of visits 29

Is the approved plan of main boiler forwarded herewith Yes

Is the approved plan of main boiler forwarded herewith Yes

” ” ” *donkey* ” ”

General Remarks (State quality of workmanship, opinions as to class, &c.)

The Engines and Boiler of this vessel have been constructed under Special Survey, are of good material and workmanship, and have been fitted and secured on board in accordance with the Rules. They are now in good working condition and in my opinion eligible to have the notation of + LMC 10, 05, in the Register Book.

It is submitted that
this vessel is eligible for
THE RECORD *U.L.M.C. 10-05*

Paul.

16.10.05.

16.10.05

The amount of Entry Fee..	£	1	:	:	When applied for,
Special	£	9	:	12	10/10/1905
Donkey Boiler Fee	£	-	:	:	When received,
Travelling Expenses (if any) £		3	:	:	20/10/1905

Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute

TUES. 17 OCT 1905

Assigned

+ Lm 6. 1003

MACHINERY CERTIFICATE
WRITTEN.

Lloyd's Register
Foundation