

Mo No. 38290
mdb m 2620

REPORT ON MACHINERY.

Port of Newcastle

1005, 15 JUN 1899

in Survey held at Newcastle
look.

Date, first Survey 29th July 98 Last Survey 24th Apr 1899

on the

S.S. MONT-BLANC

Gross 2935
Tons Net 1891

at Brouzat

Built at Middlesbrough

By whom built Sir Raylton Dixon & Co Ltd When built 5-1899

es made at Newcastle

By whom made The North Eastern Marine Eng^l Co when made 4-1899

rs made at Newcastle

By whom made The North Eastern Marine Eng^l Co when made 4-1899

tered Horse Power

Owners Société Générale de Transports Maritimes Port belonging to Marseille

Horse Power as per Section 28244

Is Electric Light fitted No

INES, &c.—Description of Engines

Triple

No. of Cylinders 3

No. of Cranks 3

eter of Cylinders 25", 36", 62"

Length of Stroke 42"

Revolutions per minute 62

Diameter of Screw shaft as per rule 12"

eter of Tunnel shaft as per rule 10 1/2"

Diameter of Crank shaft journals 11 1/2"

Diameter of Crank pin 11 1/2"

Size of Crank webs 22 x 7 1/2"

eter of screw 16-0"

Pitch of screw 16-0"

No. of blades 4

State whether moveable No

Total surface 80 sq ft

of Feed pumps 2

Diameter of ditto 3 1/2"

Stroke 21"

Can one be overhauled while the other is at work yes

of Bilge pumps 2

Diameter of ditto 3 1/2"

Stroke 21"

Can one be overhauled while the other is at work yes

of Donkey Engines 2

Diameter of ditto 3 1/2"

Stroke 21"

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

Engine Room 4m 3 1/2"

Diameter of ditto 3 1/2"

Stroke 21"

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

Upt. Hold. Two 3' dia.

Upt. Hold. Two 3' dia.

Cock to drain Upt. Peak.

of bilge injections 1

sizes 4"

Connected to condenser, or to circulating pump

Is a separate donkey suction fitted in Engine room & size yes 3 1/2"

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 none

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

Are they Valves or Cocks both

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

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

at pipes are carried through the bunkers none

How are they protected ✓

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

en were stern tube, propeller, screw shaft, and all connections examined in dry dock how tested. Is the screw shaft tunnel watertight apparently

it fitted with a watertight door yes

worked from upper grating in Eng room

TERS, &c.—

(Letter for record S)

Total Heating Surface of Boilers 3500 sq ft

Is forced draft fitted no

and Description of Boilers Two, multi, single ended

Working Pressure 180 lb

Tested by hydraulic pressure to 360 lb

of test 2/-11-98

Can each boiler be worked separately yes

Area of fire grate in each boiler 51 sq ft

No. and Description of safety valves to

boiler Two, spring loaded

Area of each valve 5-93 sq in

Pressure to which they are adjusted 180 lb

Are they fitted

to easing gear yes

Smallest distance between boilers or uptakes and bunkers or woodwork 14" boiler lagged

Mean diameter of boilers 14-6 1/2"

length 10-6"

Material of shell plates Steel

Thickness 1 1/2"

Description of riveting: circum. seams DR Lap

long. seams DBS straps T.R

diameter of rivet holes in long. seams 1 1/2"

Pitch of rivets 9 1/8"

Lap of plates or width of butt straps 19 1/2"

Percentage of strength of longitudinal joint 90-2

Working pressure of shell by rules 209 lb

Size of manhole in shell end 16 1/2"

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DONKEY BOILER— Description *Loc. Vert. (Cochran's Patent No. 2494)*.
 Made at *Birkenhead*. By whom made *Cochran & Co.* When made *24.10.98* Where fixed *for stokehold*.
 Working pressure *80 lbs* tested by hydraulic pressure to *160 lbs* No. of Certificate *1521* Fire grate area *19.7* Description of safety valves *Spring loaded*.
 No. of safety valves *one*. Area of each *11.04* Pressure to which they are adjusted *80 lbs*. If fitted with easing gear *yes*. If steam from main boilers can enter the donkey boiler *no*. Diameter of donkey boiler *6' 6"* Length *13' 6"* Material of shell plates *steel*. Thickness *3/16"*.
 Description of riveting long. seams *Double lap* Diameter of rivet holes *3/16"* Whether punched or drilled *drilled*. Pitch of rivets *2 3/4"*.
 Lap of plating *4 3/8"* Per centage of strength of joint *70.4* Thickness of shell crown plates *3/32"* Radius of do. *3' 3"* No. of stays to do. *✓*
 Dia. of stays. *✓* Diameter of furnace Top *2' 8"* Bottom *5' 4"* Length of furnace *Circ.* Thickness of furnace plates *7/16"* Description of joint *Single lap* Thickness of furnace crown plates *7/16"* Stayed by *Hemispherical* Working pressure of shell by rules *85.5 lbs*.
 Working pressure of furnace by rules *105.14* Diameter of uptake *19' 14"* Thickness of uptake plates *1/2"* Thickness of water tubes *✓*

SPARE GEAR. State the articles supplied:— *1 propeller, 1 tail shaft, 3 crank shaft, 2 top & 2 bottom end 2 main bearing & 1 set coupling bolts & nuts, 1 each air & circ: pump rods, 1 L.P. spindle, 1 set 1/4 in. P. packing rings, 1 Ecc: Sheave, 1 thrust ring, 2 safety valves spring. 1 set each Air, Circ: & ballast donkey valves, bolts & nuts assorted & iron of various sizes*

The foregoing is a correct description,

FOR THE NORTH EASTERN MARINE ENGINEERING CO. LTD. Manufacturer.

Dates { During progress of work in shops— *1898. July. 29. Aug. 23. 30. Sep. 8. 15. 24. Oct. 4. 17. 24. Nov. 2. 9. 16. 21. Dec. 29.*
 of Survey { During erection on board vessel— *1899. Feb. 16. Mar. 2. 23. Apr. 6. 11. 18. 25. 31. Mch. 1899. Mar. 17. 24. Apr. 21. 27. May. 15.*
 while building { Total No. of visits *thirty-four*

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

ENGINES—Length of stern bush *4' 8"* Diameter of crank shaft journals *as per rule 11 1/2"* Diameter of thrust shaft under collars *11 1/2"*

BOILERS—Range of tensile strength *29.32* Are they welded or flanged *flanged* **DONKEY BOILERS**—No. *1* Range of tensile strength *as per rule 11 1/2"*
 Is the approved plan of main boiler forwarded herewith *yes* Is the approved plan of donkey boiler forwarded herewith *✓*

The machinery of this vessel has been constructed and fitted on board under special survey, the workmanship is sound & good throughout. The main steam pipes have been tested by Hydraulic test to 360 lbs. The machinery has been tried under steam & found satisfactory, which in our opinion renders the vessel eligible for the record of **+ L.M.C. 6-99** in the Register Book.

It is submitted that this vessel is eligible for THE RECORD.

L.M.C. 6.99

13/6/99

The amount of Entry Fee... £ 2 : : When applied for, *8 MAY 1899*
 Special ... £ 32 : : When received, *9 June 99 at hwe*
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 Committee's Minute
 Assigned

FRI, 16 JUN 1899

+ L.M.C. 6.99

Robert Angus Patey & Co.
 Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.