

REPORT ON MACHINERY.

No. 27125

Received at London Office MON. 24 DEC. 1917

Date of writing Report

When handed in at Local Office

22 DEC 1917

Port of

SUNDERLAND

No. in Survey held at
Reg. Book.

SUNDERLAND

Date, First Survey

15 May

Last Survey

18-12-1917

on the new steel

S/S "MONEYSPINNER"

Master

Built at Dundee

By whom built Dundee

SBC & S/S No 289

Tons } Gross
Net

When built 1917

Engines made at

Sunderland

By whom made

Macbeth & Pollock Ltd (No 266)

when made

1917

Boilers made at

Stockton

By whom made

Riley Brothers Ltd (No 505/82)

when made

1917

Registered Horse Power

Owners Pile & Co Ltd

Port belonging to

Goole

Nom. Horse Power as per Section 28

116

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

no

ENGINES, &c.—Description of Engines

Triple expansion

No. of Cylinders

3

No. of Cranks

3

No. of Cylinders

14 1/2 - 24 - 39

Length of Stroke

27"

Revs. per minute

Dia. of Screw shaft

as per rule 8.488"

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

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

3'-2 1/4"

Dia. of Tunnel shaft

as per rule 7.28"

as fitted 7 1/2"

Dia. of Crank shaft journals

as per rule 7.65"

as fitted 7 1/8"

Dia. of Crank pin

7 7/8"

Size of Crank webs

1 1/2 x 5 1/2"

Dia. of thrust shaft under

collars

Diameters

7 7/8"

Dia. of screw

10'-10"

Pitch of Screw

11'-6"

No. of Blades

4

State whether moveable

no

Total surface

42 sq ft

No. of Feed pumps

two

Diameter of ditto

2 1/4"

Stroke

13 1/2"

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

two

Diameter of ditto

2 1/4"

Stroke

13 1/2"

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

two

Sizes of Pumps

5 1/2 & 3 1/2 x 5

6 & 7 x 7

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

in Engine Room

2 @ 2 1/4"

No. of Bilge Injections

1

size

3 1/2"

Connected to condenser, or to circulating pump

b.p.

Is a separate Donkey Suction fitted in Engine room of size

yes, 2 1/2"

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

none

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

yes

Are they Valves or Cocks

valves

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

That pipes are carried through the bunkers

hold suction

How are they protected

under 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

Dates of examination of completion of fitting of Sea Connections

3.10.17

of Stern Tube

22-11-17

Screw shaft and Propeller

22-11-17

Is the Screw Shaft Tunnel watertight

none

Is it fitted with a watertight door

in ch. aft

worked from

BOILERS, &c.—(Letter for record)

Manufacturers of Steel

Total Heating Surface of Boilers

Is Forced Draft fitted

No. and Description of Boilers

Working Pressure

Tested by hydraulic pressure to

Date of test

No. of Certificate

Can each boiler be worked separately

Area of fire grate in each boiler

No. and Description of Safety Valves to

each boiler

Area of each valve

Pressure to which they are adjusted

Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork

Mean dia. of boilers

Length

Material of shell plates

Thickness

Range of tensile strength

Are the shell plates welded or flanged

Descrip. of riveting: cir. seams

Long. seams

Diameter of rivet holes in long. seams

Pitch of rivets

Lap of plates or width of butt straps

Percentages of strength of longitudinal joint

rivets

Working pressure of shell by rules

Size of manhole in shell

Size of compensating ring

No. and Description of Furnaces in each boiler

Material

Outside diameter

Length of plain part

top

bottom

Thickness of plates

crown

bottom

Description of longitudinal joint

No. of strengthening rings

Working pressure of furnace by the rules

Combustion chamber plates

Material

Thickness: Sides

Back

Top

Bottom

Pitch of stays to ditto: Sides

Back

Top

If stays are fitted with nuts or riveted heads

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

End plates in steam space

Material

Thickness

Pitch of stays

How are stays secured

Working pressure by rules

Material of stays

Diameter at smallest part

Area supported by each stay

Working pressure by rules

Material of Front plates at bottom

Thickness

Material of Lower back plate

Thickness

Greatest pitch of stays

Working pressure of plate by rules

Diameter of tubes

Pitch of tubes

Material of tube plates

Thickness: Front

Back

Mean pitch of stays

Pitch across wide water spaces

Working pressures by rules

Girders to Chamber tops: Material

Depth and

Thickness of girder at centre

Length as per rule

Distance apart

Number and pitch of stays in each

Working pressure by rules

Superheater or Steam chest; how connected to boiler

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

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

W654-0049

IS A DONKEY BOILER FITTED? no

If so, is a report now forwarded? ☒

SPARE GEAR. State the articles supplied:— Two connecting rod top and bottom end bolts and nuts, two main bearing bolts, one set of coupling bolts, one set of feed and bilge pump valves, iron and bolts of various sizes.

The foregoing is a correct description,

MAO COLL & POLLOCK LTD.

Manufacturer.

Dates of Survey while building { During progress of work in shops -- } 1917 May 25 June 12. 16. 18. 30 July 5. 9. 11. 13. 17 20 22. 27 Aug 21. 31. Sep 3. 15. 18. 24. 26. 28. Oct 2. 9. 11. 24. 25. 30. 31.
{ During erection on board vessel -- } Nov. 9. 28. 29 Dec. 8. 15. 18. (Sept. 22. 24. 26. October 3. at bunker) from
Total No. of visits (34. + 4) Is the approved plan of main boiler forwarded herewith yes

" " " donkey " " "

Dates of Examination of principal parts—Cylinders 15-9-17 Slides 24-9-17 Covers 18-6-17 Pistons 31-8-17 Rods 21-8-17

Connecting rods 13-7-17 Crank shaft 30-9-15 Thrust shaft 23-7-17 Tunnel shafts none Screw shaft 31-10-17 Propeller 24-10

Stern tube 2-10-17 Steam pipes tested 28-9-17 Engine and boiler seatings 16-11-17 Engines holding down bolts 29-11-17

Completion of pumping arrangements 18-12-17 Boilers fixed 29-11-17 Engines tried under steam 8-12-17

Main boiler safety valves adjusted 8-12-17 Thickness of adjusting washers Port boiler - P 3/8 S 1/16. Starboard boiler P 3/8 S 1/16.

Material of Crank shaft Steel Identification Mark on Do. 4138 G.H.M. Material of Thrust shaft Steel Identification Mark on Do. 7657

Material of Tunnel shafts none Identification Marks on Do. ✓ Material of Screw shafts Steel Identification Marks on Do. 7657

Material of Steam Pipes Lapwelded wrought iron Test pressure 540 lbs. 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 only engines If so, state name of vessel

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

The workmanship and materials are good.

The machinery was constructed under special survey and is eligible in our opinion for classification and the record + LMC 1.18 date (see letter attached)

It is submitted that
this vessel is eligible for
THE RECORD. + LMC 1.18.

See Hull Report No 30346 attached.

The amount of Entry Fee ... £ 2 : - :
Special ... £ 9 : 17 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 22 DEC 1917
When received, 5/11/18

Committee's Minute

FRI. 1 FEB. 1918

Assigned

+ LMC 1.18

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



© 2020

Lloyd's Register
Foundation