

REPORT ON MACHINERY.

No. 37025

Received at London Office

Date of writing Report

19

When handed in at Local Office

11/5/10 26 Port of

Hull

13 MAY 1920

No. in Survey held at
Reg. Book.

Hull

Date, First Survey 3-11-25

Last Survey 3-5-1926

(Number of Visits 34)

10603

on the

Steam hauler

"ISLANDE"

Master

Built at

Cam.

By whom built

Chantiers Navals Français

No 72

Tons

Gross 1032

Net

When built

1926

Engines made at

Hull

By whom made

Amos & Smith Ltd. No 3695

when made

1926

Boilers made at

Hull

By whom made

Amos & Smith Ltd. No 3695

when made

1926

Registered Horse Power

Owners

J. Hurst.

Port belonging to Bordeaux.

Nom. Horse Power as per Section 28

145

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

16 x 27 x 44

Length of Stroke

30

Revs. per minute

112

Dia. of Screw shaft

as per rule

8.925

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

yes

If two

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

yes

Length of stern bush

42"

Dia. of Tunnel shaft

as per rule

7.98

Dia. of Crank shaft journals

as per rule

8.38

Dia. of Crank pin

8 3/4

Size of Crank webs

17 1/2 x 5 1/2

Dia. of thrust shaft under

collars

8 3/4

Dia. of screw

11-4

Pitch of Screw

10-10

No. of Blades

4

State whether moveable

no

Total surface

40 sq.

No. of Feed pumps

2

Diameter of ditto

2 3/4

Stroke

16

Can one be overhauled while the other is at work

yes

No. of Bilge pumps

2

Diameter of ditto

2 3/4

Stroke

16

Can one be overhauled while the other is at work

yes

No. of Donkey Engines

2

Sizes of Pumps

6 1/4 x 4 3/4 x 6, 7 x 8 x 8

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

In Engine Room

Main, 2" dia; Main & auxy 2 1/2" dia.

In Holds, &c. One 2 1/2" to each stow well.

No. of Bilge Injections

1

sizes

5"

Connected to condenser, or to circulating pump

pump

Is a separate Donkey Suction fitted in Engine room & size

2 1/2" & 3" inject.

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

yes

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 stowhold 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

steel 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

yes

Is it fitted with a watertight door

yes

worked from

BOILERS, &c.—(Letter for record

S)

Manufacturers of Steel

William Beardmore & Co. Ltd.

Total Heating Surface of Boilers

2642 sq.

Is Forced Draft fitted

no

No. and Description of Boilers

One

S.E. Main

Working Pressure

180 lbs.

Tested by hydraulic pressure to

320 lbs.

Date of test

8-3-26

No. of Certificate

3589

Can each boiler be worked separately

yes

Area of fire grate in each boiler

80 sq.

No. and Description of Safety Valves to

each boiler

2 spring loaded

Area of each valve

5.94 sq.

Pressure to which they are adjusted

180 lbs.

Are they fitted with easing gear

yes

Smallest distance between boilers or uptakes and bunkers or woodwork

alt 9"

Mean dia. of boilers

16-3 5/16

Length

11-0"

Material of shell plates

S

Thickness

1 1/32

Range of tensile strength

28/32 tons

Are the shell plates welded or flanged

no

Descrip. of riveting: cir. seams

D.R.

long. seams

T.R.D.B.S.

Diameter of rivet holes in long. seams

1 1/32

Pitch of rivets

9 3/8

Lap of plates on width of butt straps

19 7/8

Per centages of strength of longitudinal joint

rivets

86.5

plate

85.6

Working pressure of shell by rules

183 lbs.

Size of manhole in shell

16 x 12

Size of compensating ring

40 x 30 x 1 1/32

No. and Description of Furnaces in each boiler

4 plain

Material

S

Outside diameter

41 5/8

Length of plain part

top

82 1/4

bottom

76 3/4

Thickness of plates

crown

13 1/16

bottom

Description of longitudinal joint

Welded

No. of strengthening rings

—

Working pressure of furnace by the rules

201

Combustion chamber plates: Material

S

Thickness: Sides

11/16

Back

11/16

Top

11/16

Bottom

11/16

Pitch of stays to ditto: Sides

9 1/2 x 7 1/2

Back

9 x 10

Top

10 x 7 1/2

If stays are fitted with nuts or riveted heads

nuts

Working pressure by rules

182

Material of stays

S

Area at smallest part

1 3/4 dia.

Area supported by each stay

90 sq.

Working pressure by rules

201

End plates in steam space:

seamed into plate

Material

S

Thickness

1 1/4

Pitch of stays

26 3/4 dia.

How are stays secured

N & W.

Working pressure by rules

182

Material of stays

S

Area at smallest part

3 1/2 dia.

Area supported by each stay

460 sq.

Working pressure by rules

206

Material of Front plates at bottom

S

Thickness

21/32

Material of Lower back plate

S

Thickness

21/32

Greatest pitch of stays

13 1/2 x 10 1/2

Working pressure of plate by rules

230

Diameter of tubes

3 1/4

Pitch of tubes

4 3/4 x 4 1/2

Material of tube plates

S

Thickness: Front

31/32

Back

27/32

Mean pitch of stays

9 x 9 1/2

Pitch across wide water spaces

13 1/2

Working pressures by rules

222 lbs.

Girders to Chamber tops: Material

S

Depth and

thickness of girder at centre

9 x 1 3/4

Length as per rule

2-10"

Distance apart

10"

Number and pitch of stays in each

3 @ 7 1/2"

Working pressure by rules

199

Steam dome: description of joint to shell

—

% of strength of joint

Diameter

—

Thickness of shell plates

—

Material

—

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded?

Yes

SPARE GEAR. State the articles supplied:—

Two top end belts & nuts, 2 bottom end belts & nuts, 2 main bearing belts & nuts, 1 set coupling belts, 1 set feed, bilge, & air pump valves; 1/2 set fire bars; 1 piston rod; 1 valve spindle, 1 bilge pump plunger, 1 link block; 20 boiler tubes; Piston rings for all cylinders; pair connecting rod brasses; 16 condenser tubes; Impeller & shaft for centrifugal pump; 1 main bearing brass; 4 white metal thrust shoes.

The foregoing is a correct description.

For AMOS & SMITH LTD.

J. F. Robinson

DIRECTOR.

Manufacturer.

Dates of Survey while building { During progress of work in shops -- 1925: - Nov 3, 5, 14, 23, Dec 2, 10, 16, 31, 1926: - Jan 2, 6, 11, 14, 18, 28, 30
During erection on board vessel -- Feb 3, 8, 11, 19, 26, Mar 3, 8, 22, 30, 31 Apr 8, 12, 13, 15, 19, 22, 26, 29 May 3.
Total No. of visits 34

Is the approved plan of main boiler forwarded herewith

yes

" " " donkey " " "

yes

Dates of Examination of principal parts—Cylinders 30-1-26 Slides 11-2-26 Covers 30-1-26 Pistons 11-2-26 Rods 8-2-26

Connecting rods 8-2-26 Crank shaft 30-1-26 Thrust shaft 28-1-26 Tunnel shafts ✓ Screw shaft 2-1-26 Propeller 2-1-26

Stern tube 2-1-26 Steam pipes tested 15-4-26 Engine and boiler seatings 30-3-26 Engines holding down bolts 13-4-26

Completion of pumping arrangements Boilers fixed 13-4-26 Engines tried under steam 3-5-26

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted 3-5-26 Thickness of adjusting washers F. 1 1/16 A. 1 1/8

Material of Crank shaft Steel Identification Mark on Do. 208 P.F. Material of Thrust shaft Steel Identification Mark on Do. 208 P.F.

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Steel Identification Marks on Do. 208 P.F.

Material of Steam Pipes S.D. Copper. 5" dia. 4 S.W.G. ✓ 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 no ✓ If so, state name of vessel ✓

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 as required by the Rules. The safety valves have been adjusted under steam & tried for accumulation. The machinery will be eligible in my opinion to have the record LMC 5.26. C.L. when the following items have been completed:—

To complete:— Bilge & tank suction to try. Reversing engine, which was somewhat stiff on trial, to try. Donkey check valve to be overhauled. The vessel has returned to Caen, where this will be done.

The Caen Surveyor has been notified. (Examined by the Caen Surveyor) see Caen Ltr. 3.6.26.

It is submitted that this vessel is eligible for THE RECORD. + LMC 5.26. C.L.

The amount of Entry Fee ... £ 3 : - : - When applied for, 3/5/1926
Special ... £ 36 : 5 : -
Donkey Boiler Fee ... £ : : :
Travelling Expenses (if any) £ 1 : : : When received, 3/5/1926

P. F. Fitzgerald. JWD 5/6/26
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 8 JUN 1926

Assigned + L.M.C. 5.26 C.L.