

## REPORT ON MACHINERY.

No. 31342  
THU. OCT. 1919

Received at London Office

Date of writing Report

19

When handed in at Local Office

26/9/19 Port of Hull.

No. in Survey held at Hull.

Date, First Survey 16.12.18 Last Survey 9-9 1919

Reg. Book.

on the S.S LIME SLADE late JOHN ASHLEY (n<sup>o</sup>. 409)

Number of Visits 8

Gross 290

Net 127

When built 1919

Master

✓

Built at

Beverley.

By whom built

Cook Welton &amp; Gemmell

Engines made at

✓

By whom made

✓

when made

✓

Boilers made at

✓

By whom made

✓

when made

✓

Registered Horse Power

✓

Owners

Rhonda Fishing Co.

Port belonging to

Swansea.

Nom. Horse Power as per Section 28

✓

Is Refrigerating Machinery fitted for cargo purposes

✓

Is Electric Light fitted

✓

ENGINES, &amp;c.—Description of Engines

No. of Cylinders

No. of Cranks

Dia. of Cylinders

✓

Length of Stroke

✓

Revs. per minute

✓

Dia. of Screw shaft

as per rule

as fitted

7.5"

7 5/8"

Material of

screw shaft

iron.

the screw shaft fitted with a continuous liner the whole length of the stern tube no liner. Is the after end of the liner made water tight

the propeller boss ✓ 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 ✓ If two

bearers are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 34 1/2"

Dia. of Tunnel shaft as per rule ✓ Dia. of Crank shaft journals as per rule ✓ Dia. of Crank pin ✓ Size of Crank webs ✓ Dia. of thrust shaft under

bearings ✓ Dia. of screw ✓ Pitch of Screw ✓ No. of Blades ✓ State whether moveable ✓ Total surface ✓

No. of Feed pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

No. of Bilge pumps Diameter of ditto Stroke Can one be overhauled while the other is at work

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

In Engine Room In Holds, &amp;c.

No. of Bilge Injections sizes Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room &amp; size

Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible

Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks

Are they fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates 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 ✓ Are the Blow Off Cocks fitted with a spigot and brass covering plate yes.

That pipes are carried through the bunkers forward suction How are they protected wood casings.

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges

the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

MILERS, &amp;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

Type of 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

plate

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

Area 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

Area 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

Steam dome: description of joint to shell

% of strength of joint

Diameter

Thickness of shell plates

Material

Description of longitudinal joint

Diam. of rivet holes

Pitch of rivets

Working pressure of shell by rules

Crown plates

Thickness

How stayed

SUPERHEATER. Type

Date of Approval of Plan

Tested by Hydraulic Pressure to

Date of Test

Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve

Pressure to which each is adjusted

Is Easing Gear fitted

008393-008400-0083



IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

For AMOS & SMITH LTD.

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } 1918: Dec 16, 24, 1919: Mar 7, May 3, 13, 19, Aug 1, Sep 9  
{ During erection on board vessel - - - }  
Total No. of visits 8

Is the approved plan of main boiler forwarded herewith

Dates of Examination of principal parts—Cylinders ✓ Slides ✓ Covers ✓ " donkey " ✓ Pistons ✓ Rods ✓  
Connecting rods ✓ Crank shaft ✓ Thrust shaft ✓ Tunnel shafts ✓ Screw shaft 16/12/18 Propeller ✓  
Stern tube 24/12/18 Steam pipes tested ✓ Engine and boiler seatings 1/8/19 Engines holding down bolts ✓  
Completion of pumping arrangements ✓ Boilers fixed ✓ Engines tried under steam ✓  
Completion of fitting sea connections 7/3/19 Stern tube 7/3/19 Screw shaft and propeller 7/3/19.  
Main boiler safety valves adjusted ✓ Thickness of adjusting washers ✓  
Material of Crank shaft ✓ Identification Mark on Do. ✓ Material of Thrust shaft ✓ Identification Mark on Do. ✓  
Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts iron Identification Marks on Do. 2983 WNS  
Material of Steam Pipes ✓ Test pressure ✓  
Is an installation fitted for burning oil fuel ✓ 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 screw shaft, stern tube, & sea connections were made & fitted under my Survey, the rest of the machinery & boiler were built & fitted under the Survey of the British Corporation, see certificate dated 8/9/19 attached.

The amount of Entry Fee ... £ : : When applied for,  
Special ... £ : : 19.  
Donkey Boiler Fee ... £ ✓ : : When received,  
Travelling Expenses (if any) £ : : 19.

Committee's Minute FRI. 10 OCT. 1919

Assigned

W. N. Stone.

Engineer Surveyor to Lloyd's Register of Shipping.



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