

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

JULY 1928

Date of writing Report

When handed in at Local Office

6 JULY 1928

Port of Sunderland.

No. in Survey held at  
Reg. Book.

Sunderland.

Date, First Survey 13 Dec. '27

Last Survey July 3 1928

(Number of Visits 38)

on the

S.S. "STREONSHALH"

Gross 3895  
Net 2351

When built 1928

Built at

Sunderland

By whom built

William Pickersill &amp; Co.

Hull No. 222

Engines made at

do

By whom made

George Clark &amp; Co.

Engine No. 1159

when made

1928

Boilers made at

do

By whom made

do

Boiler No. 1159

when made

1928

Registered Horse Power

Owners Rowland &amp; Manswood SS &amp; Co.

Port belonging to Whitby

Nom. Horse Power as per Rule 315

Is Refrigerating Machinery fitted for cargo purposes No.

Is Electric Light fitted Yes.

Trade for which Vessel is intended General.

## ENGINES, &amp;c.—Description of Engines

Triple expansion.

Revs. per minute 61.

Dia. of Cylinders 24"-40"-66"

Length of Stroke 145"

No. of Cylinders 3

No. of Cranks 3

Crank shaft, dia. of journals

as per Rule 12.57

as fitted 13"

Crank pin dia. 13"

Crank webs

Mid. length breadth 19"

Thrust shaft, diameter at collars

as per Rule 12.57

as fitted 13 1/8"

Intermediate Shafts, diameter

as per Rule 11.972

as fitted 12 1/4"

Tube Shafts, diameter

as per Rule

Screw Shaft, diameter

as per Rule 13.386

as fitted 14"

Is the tube

screw

shaft fitted with a continuous liner

Bronze Liners, thickness in way of bushes

as per Rule 32

as fitted 23"

Thickness between bushes

as per Rule

as fitted

Is the after end of the liner made watertight in the

propeller boss

Yes.

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner

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

Is an approved Oil Gland or other appliance fitted at the after

end of the tube shaft

No.

Length of Bearing in Stern Bush next to and supporting propeller

4-8"

Propeller, dia. 17'-0"

Pitch 17'-6"

No. of Blades 4

Material

Hinge

whether Moveable

No.

Total Developed Surface 88 sq. feet

Feed Pumps worked from the Main Engines, No. 2

Diameter 3"

Stroke 26"

Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. 2

Diameter 3 1/2"

Stroke 26"

Can one be overhauled while the other is at work

Feed

No. and size 2, 12 8 1/2 x 6 x 13 1/2 x 5 1/2 x 6"

Pumps connected to the

Main Bilge Line

No. and size 12 9 x 10 x 10"

How driven

From

Pumps

How driven

From

Main Bilge Line

How driven

From

Ballast Pumps, No. and size

12 9 x 10 x 10"

Lubricating Oil Pumps, including Spare Pump, No. and size

None

Are two independent means arranged for circulating water through the Oil Cooler

Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room

32 2 1/2"

12 4 1/2"

In Holds, &amp;c.

No 1 Hold 22 2 3/4"

No 2 Hold 22 3 1/4"

No 3 Hold 22 2 3/4"

No 4 Hold

22 2 3/4"

22 2 3/4"

22 2 3/4"

22 2 3/4"

Main Water Circulating Pump Direct Bilge Suctions, No. and size

12 5 1/2"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size

12 4 1/2"

Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes

Yes

Are the Bilge Suctions in the Machinery Space led from easily accessible mud-boxes, placed above the level of the working floor, with straight tail pipes to the bilges

Are all Sea Connections fitted direct on the skin of the ship

Yes

Are they fitted with 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 Overboard Discharges 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 pass through the bunkers

None

How are they protected

What pipes pass through the deep tanks

None

Have they been tested as per Rule

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

Yes

Is the arrangement of Valves and their connections such as to prevent the possibility of water passing from the sea or from water tanks into the cargo or machinery spaces, or from one

compartment to another

Yes

Is the Shaft Tunnel watertight

Yes

Is it fitted with a watertight door

Yes

worked from the stokehold

## MAIN BOILERS, &amp;c.—(Letter for record 5)

Total Heating Surface of Boilers 4834 sq. ft.

Is Forced Draft fitted

No

No. and Description of Boilers Two S.E. type

Hull No. 222

Working Pressure 180 lbs. per sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED?

Yes

IS A DONKEY BOILER FITTED?

Yes

If so, is a report now forwarded?

PLANS.

Are approved plans forwarded herewith for Shafting

Main Boilers

Yes

Auxiliary Boilers

No

Donkey Boilers

(If not state date of approval)

Superheaters

No

General Pumping Arrangements

Yes

Oil fuel Burning Piping Arrangements

No

SPARE GEAR.

State the articles supplied:—

2 connecting Rod top end &amp; 2 connecting Rod bottom

end bolts &amp; nuts. 2 main bearing bolts. 1 set of coupling bolts. 1 set

of feed &amp; bilge pump valves. A quantity of assorted bolts &amp; nuts &amp;

various sizes. 1 C.I. Propeller. 1 tail end shaft. 3 collars

tubes. 5 boiler tubes. 2 safety valve springs.

The foregoing is a correct description,

FOR GEORGE CLARK LIMITED.

W. B. P. M. U.

Manufacturer.



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Lloyd's Register  
Foundation

W412-0149

If not, state whether, and when, one will be sent?

Is a Report also sent on the Hull of the Ship?

NOTE.—The words which do not apply should be deleted.

Lm 926. T.



NERAL  
the

Dates  
of Survey  
while  
building

During progress of  
work in shops - -

During erection on  
board vessel - - -

Total No. of visits

1927. Dec. 13. 1928. Feb. 14, 23, 28. Mar. 1, 5, 6, 9, 14, 15, 20, 27, 28. Apr. 2, 3, 4, 5, 11, 18, 27.  
May. 2, 14, 22, 24, 25, 31. June. 5, 6, 12, 14, 15, 18, 19, 20, 22, 25. July. 2, 3.

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Dates of Examination of principal parts—Cylinders 2/4/28 Slides 14/3/28 Covers 20/3/28  
Pistons 5/3/28. Piston Rods 1/3/28 Connecting rods 28/2/28.  
Crank shaft 6/3/28 Thrust shaft 6/3/28. Intermediate shafts 18/4/28.  
Tube shaft 18/4/28 Propeller 3/4/28.  
Screw shaft 18/6/28  
Stern tube 5/4/28. Engine and boiler seatings 18/6/28 Engines holding down bolts 18/6/28.

Completion of fitting sea connections 24/5/28.  
Completion of pumping arrangements 22/5/28. Boilers fixed 18/6/28. Engines tried under steam 20/6/28.  
Main boiler safety valves adjusted 20/6/28 Thickness of adjusting washers PORT 5 9/16 STB 5 1/2

Crank shaft material I. STEEL Identification Mark 4134 Thrust shaft material I. STEEL Identification Mark 14 FH.  
Intermediate shafts, material I. STEEL Identification Marks 13, 106, 11, 42, Tube shaft, material Identification Mark  
Screw shaft, material I. STEEL Identification Mark 3796 441. Steam Pipes, material L.W.S. Test pressure 540 Date of Test 18/6/28  
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 the Rules for carrying and burning oil fuel 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 & boilers of this vessel have been built under Special Survey & the material & workmanship are good. On completion the machinery was tried under full working conditions with satisfactory results.

The machinery throughout is now in a good & efficient condition & reliable in my opinion to have the notation LMC-7-28 & T.S. C.L. marked in the Society's Register Book.

It is submitted that  
this vessel is eligible for  
THE RECORD. + LMC 7-28 C.L.

DA. 9/7/28.  
Jy

The amount of Entry Fee ... £ 5-0-0 When applied for,  
Special ... £ 72-5-0 6 JULY 1928  
Donkey Boiler Fee ... £ : : When received,  
Travelling Expenses (if any) £ : : 19.7.28

Committee's Minute

Assigned

FRI 13 JUL 1928

CERTIFICATE WRITTEN.

Harbottle.  
Engineer Surveyor to Lloyd's Register of Shipping.



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