

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

21 MAR 1928

Date of writing Report

19

When handed in at Local Office

19.3.28

Port of

Glasgow

No. in Survey held at
Reg. Book.

Glasgow

Date, First Survey

16.9.27

Last Survey

14-3-

1928

(Number of Visits 33)

on the new steel S/S "CAPE ST ANDREW"

Tons { Gross 5294
Net 3163

Built at Port Glasgow By whom built

R. Duncan & Co

Yard No. 381

When built 1928

Engines made at Glasgow

By whom made

David Rowan & Co Ltd

Engine No. 868

when made 1928

Boilers made at Glasgow

By whom made

David Rowan & Co Ltd

Boiler No. 868

when made 1928

Registered Horse Power

Owners

Sun Shipping Co Ltd
(Cotton (Wholesale) & Co)

Port belonging to

London

Nom. Horse Power as per Rule

545

Is Refrigerating Machinery fitted for cargo purposes

no

Is Electric Light fitted

yes

Trade for which Vessel is intended

ENGINES, &c.—Description of Engines

Triple expansion

Revs. per minute 78

Dia. of Cylinders 26"-44"-73"

Length of Stroke 48"

No. of Cylinders 3

No. of Cranks 3

Crank shaft, dia. of journals as per Rule 14.08"

as fitted 14.78"

Crank pin dia. 14.3"

Crank webs

Mid. length breadth 21.5"

Thick. parallel to axis 8 7/8"

Intermediate Shafts, diameter as per Rule 13.41"

as fitted 13.3"

Thrust shaft, diameter at collars as per Rule 14.08"

as fitted 14.78"

Tube Shafts, diameter as per Rule

Screw Shaft, diameter as per Rule 14.91"

as fitted 15"

Is the tube screw shaft fitted with a continuous liner { yes

Bronze Liners, thickness in way of bushes as per Rule 7.55"

as fitted 13"

Thickness between bushes as per Rule 5.66"

as fitted 3.4"

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 yes

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

5'-0"

Propeller, dia. 18'-0"

Pitch 18'-0"

No. of Blades 4

Material Bronze

whether Moveable no

Total Developed Surface 108 sq. feet

Feed Pumps worked from the Main Engines, No. 2

Diameter 4"

Stroke 34"

Can one be overhauled while the other is at work yes

Bilge Pumps worked from the Main Engines, No. 2

Diameter 4 1/2"

Stroke 34"

Can one be overhauled while the other is at work yes

Feed Pumps { No. and size 2 @ 9 1/2" x 7" x 21"

Pumps connected to the

Main Bilge Line

No. and size

Ballast pump

How driven Steam

Main Bilge Line

How driven

Steam

Ballast Pumps, No. and size 1 @ 9" x 10" x 10"

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

1 @ 6"

Suctions, connected to both Main Bilge Pumps and Auxiliary

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

yes

Suctions, connected to both Main Bilge Pumps and Auxiliary

Bilge Pumps;—In Engine and Boiler Room 4 @ 2 1/2"

Dry tank 1 @ 2 1/2"

No. and size

In Holds, &c. No. 1 hold 2 @ 3" No. 2 & 3 hold 2 @ 3" Aft hold 2 @ 3" Hold well 1 @ 3" Tunnel well 1 @ 2 1/4"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 4 3/4"

No. and size

1 @ 4 3/4"

Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 6"

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 yes

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 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 pass through the bunkers forward hold suction

How are they protected under wood casing

Have they been tested as per Rule

yes

What pipes pass through the deep tanks no deep tank

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 Bridge Deck

MAIN BOILERS, &c.—(Letter for record (3))

Total Heating Surface of Boilers 8001 sq. ft.

Is Forced Draft fitted yes

No. and Description of Boilers 3 S.E. 3 S.A.

Working Pressure 200

IS A REPORT ON MAIN BOILERS NOW FORWARDED? yes

IS A DONKEY BOILER FITTED? no

If so, is a report now forwarded? no

PLANS. Are approved plans forwarded herewith for Shafting no

Main Boilers yes

Auxiliary Boilers no

Donkey Boilers no

(If not state date of approval)

Superheaters

General Pumping Arrangements with shipper

Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:—

In accordance with the Rules and in addition:—

one cast iron propeller, one propeller shaft, one circulating pump rod, one air pump

rod, one feed pump plunger.

The foregoing is a correct description,

For David Rowan & Co. Ltd
Archd. W. Grierson

Manufacturer.



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Lloyd's Register
Foundation

W368-0088

1927 Sep 16 Oct 8 19 24 Nov 9 11 18 22 29 Dec 2 5 14 16 19 21 23 25 30 (1928) Jan 10 11 13 18 20 25 26 31
During progress of work in shops - - Feb. 14 20 23 Mar 2 6 7 14
Dates of Survey while building During erection on board vessel - - -
Total No. of visits 188 33

Dates of Examination of principal parts—Cylinders 18-11-27 Slides 11-1-28 Covers 22-11-27
Pistons 23-12-27 Piston Rods 21-12-27 Connecting rods 9-11-27
Crank shaft 11-11-27 Thrust shaft 21-12-27 Intermediate shafts 22-11-27
Tube shaft ✓ Screw shaft 10-1-28 Propeller 30-12-27
Stern tube 14-12-27 Engine and boiler seatings 16-2-28 Engines holding down bolts 23-2-28
Completion of fitting sea connections ✓
Completion of pumping arrangements 14-3-28 Boilers fixed 23-2-28 Engines tried under steam 14-3-28
Main boiler safety valves adjusted 6-3-28 Thickness of adjusting washers Port-11-P 3/8 S 23/64. Centre-11-P 3/8 S 33/64. Stt-11-P 3/8 S 23/64
Crank shaft material 9. Steel Identification Mark LLOYD'S NO 1936 11-11-27 L.C.O. Thrust shaft material J. Steel Identification Mark LLOYD'S NO 1936 21-12-27 L.C.O.
Intermediate shafts, material Identification Marks LLOYD'S NO 1936 22-11-27 L.C.O. Tube shaft, material - Identification Mark -
Screw shaft material 9. Steel Identification Mark LLOYD'S NO 1936 10-1-28 L.C.O. Steam Pipes, material Steel Test pressure 600 Date of Test 16-12-27
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 the use of oil as fuel been complied with ✓
Is the vessel (not being an oil tanker) fitted for carrying oil as cargo. ✓ If so, have the requirements 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 materials and workmanship are good.
The machinery has been constructed under Special Survey in accordance with the Rules, satisfactorily fitted in the vessel, tried under steam and found good. It is eligible in my opinion for classification and the Record + LMC 3.28.

It is submitted that this vessel is eligible for THE RECORD. + LMC 3.28 CL. F.D.
23/3/28

The amount of Entry Fee ... £ 6 : -
Special ... £ 102 : 5
Donkey Boiler Fee ... £ :
Travelling Expenses (if any) £ :
When applied for, 20 MAR 1928
When received, 22/3/28

S. Davis
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute GLASGOW 20 MAR 1928

Assigned + L.M.C. 3.28 F.D.

CERTIFICATE WRITTEN