

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 19 When handed in at Local Office 21 SEP 1939 Port of *Aden* Received at London Office 23 SEP 1939

No. in Survey held at *Aden* Date, First Survey 21-3-39 Last Survey 21-9-1939
Reg. Book. (Number of Visits 30)

15945 on the *SINGLE SIREO STEAM TRAWLER "CAPE PASSARO"* Tons { Gross 591.19
Net 224.67

Built at *Aden* By whom built *Aden & Sons Ltd.* Yard No. 1214 When built 1939

Engines made at *Aden* By whom made *Chas. D. Holmes & Co. Ltd.* Engine No. 1549 When made 1939

Boilers made at *Aden* By whom made *Chas. D. Holmes & Co. Ltd.* Boiler No. 1549 When made 1939

Registered Horse Power 162.8 Owners *Aden Steam Towing Co. Ltd.* Port belonging to *Aden*

Nom. Horse Power as per Rule 163 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted *Yes*

Trade for which Vessel is intended *Fishing*

ENGINES, &c.—Description of Engines *Triple Expansion D.R. vertical* Revs. per minute

Dia. of Cylinders $14\frac{1}{2} \times 24\frac{1}{2} \times 41$ Length of Stroke 27 No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 8.45 as fitted 8.5 Crank pin dia. 8.5 Crank webs Mid. length breadth 18.5 Mid. length thickness 5.25 shrunk Thickness parallel to axis 3.5 Thickness around eye-hole 3.5

Intermediate Shafts, diameter as per Rule 7.015 as fitted 7.015 Thrust shaft, diameter at collars as per Rule 7.015 as fitted 7.015

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 8.191 as fitted 8.191 Is the tube shaft fitted with a continuous liner *Yes*

Bronze Liners, thickness in way of bushes as per Rule 19/32 as fitted 19/32 Thickness between bushes as per Rule 1/2 as fitted 1/2 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* If so, state type Length of Bearing in Stern Bush next to and supporting propeller 40 1/2

Propeller, dia. 10.67 Pitch 10.67 No. of Blades 4 Material *Brass* whether Movable *No* Total Developed Surface 42 sq. feet

Feed Pumps worked from the Main Engines, No. 1 Diameter 3" Stroke 15" Can one be overhauled while the other is at work

Bilge Pumps worked from the Main Engines, No. 1 Diameter 3" Stroke 15" Can one be overhauled while the other is at work

Feed Pumps { No. and size 1 1/2" 4.5 pump 6x3 1/2x6 Pumps connected to the { No. and size 1 1/2" 4.5 pump 7x5 1/2x6 Main Bilge Line { How driven 1 - 3" 1 1/2" 4.5 pump

Ballast Pumps, No. and size 1 1/2" 4.5 pump Lubricating Oil Pumps, including Spare Pump, No. and size

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 1-2" E.R. 1/2" 1-2" E.R. 1/2" 1-2" E.R. 1/2"

In Pump Room In Holds, &c. 1-2" T. 1/2" 1-2" T. 1/2" 1-2" T. 1/2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-3" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1-3"

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 *Both*

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 *Feed Suction T. Pipe & Fuel Pipes* How are they protected *Wood casings*

What pipes pass through the deep tanks 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 *No* Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 2551.41

Which Boilers are fitted with Forced Draft *Yes* Which Boilers are fitted with Superheaters *Yes*

No. and Description of Boilers *One 3. B.* Working Pressure 225 lbs./sq. in.

IS A REPORT ON MAIN BOILER NOW FORWARDED? *Yes*

IS A DONKEY BOILER FITTED? *No* If so, is a report now forwarded?

Can the donkey boiler be used for domestic purposes only

PLANS. Are approved plans forwarded herewith for Shafting *Yes* Main Boilers *Yes* Auxiliary Boilers *Yes* Donkey Boilers *Yes*

(If not state date of approval)

Superheaters *Yes* General Pumping Arrangements *Yes* Oil fuel Burning Piping Arrangements *Yes*

SPARE GEAR.

Has the spare gear required by the Rules been supplied *As Below*

State the principal additional spare gear supplied

2 Top end bolts & nuts.
2 Bolt " " " "
2 Main bearing bolts & nuts.
1 Set coupling bolts & nuts.
1 Set fuel & bilge pump valves.
1 Set air pump valves.
1 Safety valve spring.
1 Donkey check valve lid.
1 Main check valve lid.
12 Condenser screws.
3 " " " "
1 set of valves for Duplex pump.
1 set of valves for regular working pump.
1 fuel pump ram.
1 circulating pump impeller shaft.
2 Top end bolt for circulating pump.
2 Bolt " " " "
1 Spare water gauge pipe.
1 Spare fuel pipe direct to tank.
1 Main engine piston & valve spindle gland.
1 " " " " " "
1 " " " " " "
4 Tube stoppers. 1/2" 1/2" 1/2" 1/2"

The foregoing is a correct description.

For CHARLES D. HOLMES & CO., LTD.

C. Cooper

Manufacturer.

© 2020

Lloyd's Register Foundation

W282-025

1939. *Mar 21. 28. 30 Apr 6. 17. 19. 19 May 4. 5. 10. 16. 17. 18. 22. 23. 23. 26 June 12. 19. 20 July 12 20. 28 Aug 2. 15. 17. 21. 28. 30. Sep 21*

Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - -

Total No. of visits *30.*

Dates of Examination of principal parts—Cylinders *23. 5. 39* Slides *12. 6. 39* Covers *12. 6. 39*

Pistons *12. 6. 39* Piston Rods *12. 6. 39* Connecting rods *12. 6. 39*

Crank shaft *5. 5. 39* Thrust shaft *5. 5. 39* Intermediate shafts *5. 5. 39*

Tube shaft *✓* Screw shaft *17. 5. 39* Propeller *26. 5. 39*

Stern tube *26. 5. 39* Engine and boiler seatings *28. 7. 39* Engines holding down bolts *2. 8. 39*

Completion of fitting sea connections *26. 5. 39*

Completion of pumping arrangements *21. 9. 39* Boilers fixed *28. 7. 39* Engines tried under steam *28. 8. 39*

Main boiler safety valves adjusted *28. 1. 39* Thickness of adjusting washers *Not fitted. 13/16"*

Crank shaft material *Steel* Identification Mark *1418* Thrust shaft material *Steel* Identification Mark *1418*

Intermediate shafts, material *Steel* Identification Marks *1418* Tube shaft, material *✓* Identification Mark *✓*

Screw shaft, material *Steel* Identification Mark *1418* Steam Pipes, material *Steel* Test pressure *67.5 lb* Date of Test *17. 8. 39*

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 *✓*

If the notation for Ice Strengthening is desired, state whether the requirements in this respect have been complied with *✓*

Is this machinery duplicate of a previous case *No*. If so, state name of vessel *S/S. CAPE SIRETOKO*

General Remarks (State quality of workmanship, opinions as to class, &c. *(See Report No. 30161)*

The Machinery of this vessel has been examined under Special Survey & the materials & workmanship are found to be good. The Machinery has been satisfactorily installed, running under working conditions & found in good working order & is eligible in my opinion to receive notation ✓ LMC 9. 39 C.L. 5PT. in the Register Book.

NOTE. The Forging & Casting Reports for this vessel will be forwarded on the completion of the series of four similar vessels for the above owner, of which, this vessel is the second.

The amount of Entry Fee ... £ *3 : 0 :* When applied for, *19. 9. 39*

Special ... £ *40 : 0 :*

Donkey Boiler Fee ... £ *✓* When received, *6/10/39*

Travelling Expenses (if any) £ *✓*

Committee's Minute

Assigned

+ Lmb. 9. 39 Sph. 22, Ch

A. H. Surman
Engineer Surveyor to Lloyd's Register of Shipping.



© 2020

Lloyd's Register Foundation

Rpt. No. in Reg. Book. 05944 Master Engines Boilers Nomina MUL Manufa Total H No. and Tested Area of Area of In case Smalles Smalles Largest Thickne long. se Percent Percent Thickne Material Length Dimens End pl How a Tube p Mean Girders at cent in each Tensile Pitch Workin Thickn Pitch Workin Diamer Workin Diamer

Certificate to be sent to The Surveyors are requested not to write on or below the space for Committee's Minute.

As a Report also sent on the date of the survey