

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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

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

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

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

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

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

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

Nom. Horse Power as per Rule 163 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which Vessel is intended Fishing

ENGINES, &c.—Description of Engines Triple Expansion D.A. Vertical Revs. per minute 300

Dia. of Cylinders 14 1/2 x 24 1/2 x 41 Length of Stroke 27 No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals 8 1/2 as per Rule 8 1/2 Crank pin dia. 9 3/4 Crank webs Mid. length breadth 5 3/4 Thickness parallel to axis 3 3/4
 as fitted 8 1/2 Mid. length thickness 5 3/4 shrunk Thickness around eye-hole 3 3/4

Intermediate Shafts, diameter as per Rule 7.005 Thrust shaft, diameter at collars as per Rule 7.005
 as fitted 7 as fitted 8 3/4

Tube Shafts, diameter as per Rule 1.191 Screw Shaft, diameter as per Rule 1 1/2 Is the tube shaft fitted with a continuous liner? Yes
 as fitted 1 1/2 as fitted 1 1/2

Bronze Liners, thickness in way of bushes as per Rule 19/32 Thickness between bushes as per Rule 1/2 Is the after end of the liner made watertight in the propeller boss Yes
 as fitted 19/32 as fitted 1/2 If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner 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 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 40 1/2

Propeller, dia. 10.67 Pitch 10.6 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 Yes

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

Feed Pumps { No. and size 1 1/2" Steam driven 6 x 3 1/2 x 6 Pumps connected to the Main Bilge Line { No. and size 1 1/2" Duplex pump 7 1/2 x 6 x 6
 How driven 1 1/2" Steam driven How driven 1 - 3" Steam driven

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

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 1-2" E.R. line 1-2" E.R. line 1-2" E.R. line

In Pump Room 1-2" E.R. line In Holds, &c. 1-2" T. Shankwell 1-2" T. Shankwell

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1-3" Duplex Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1-3" Duplex 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 1-2" T. Shankwell How are they protected Wood casings

What pipes pass through the deep tanks 1-2" T. Shankwell Have they been tested as per Rule Yes

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 Yes worked from Yes

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 2551 sq. ft.

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

No. and Description of Boilers One S.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? Yes

Can the donkey boiler be used for domestic purposes only Yes

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.	12 Condenser screws.
2 Bolts " " " "	3 " Tubes.
2 Main bearing bolts & nuts.	1 set of valves for Duplex pump.
1 set coupling bolts & nuts.	1 set of valves for regular working pump.
1 set feed & bilge pump valves.	1 feed pump ram.
1 set air pump valves.	1 circulating pump impeller shaft.
1 Safety valve spring.	2 Top end bolts for circulating pump.
1 Donkey check valve lid.	2 Bolts " " " "
1 Main check valve lid.	1 Spare water gauge pipe.
	1 Spare feed pipe don't T. check.
	1 Main engine piston & valve spindle gland.
	1 Manufacturer. " " " "
	1 Tube stopper. " " " "

The foregoing is a correct description.
 For CHARLES D. HOLMES & CO., LTD.

C. Cooper

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 a thin. value 13/32"*
 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 *675 lbs* 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 *Yes*. If so, state name of vessel *S/S. CAPE SIRETOKO*

General Remarks (State quality of workmanship, opinions as to class, &c. *(See Report No. 50161)*)

The machinery of this vessel has been constructed under special survey & the materials & workmanship are found to be good. The machinery has been satisfactorily installed, examined under working conditions & found in good working order & is eligible in my opinion to receive notation H 1112 9. 39 C.L. SPT. 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.*

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

The amount of Entry Fee ... £ *3 : 0 :*
 Special ... £ *40 : 0 :*
 Donkey Boiler Fee ... £ *10 : 0 :*
 Travelling Expenses (if any) £ *10 : 0 :*

When applied for, *19. 9. 39*
 When received, *6/10/39*

A. L. Swain
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute *TUE 29 SEP 1939*
 Assigned *+ Lmb. 9. 39 Spt. 22, Ch*



Rpt. No. in Reg. Book
 0594
 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 p
 Girder
 at cent
 in each
 Tensile
 Pitch
 Workin
 Thickn
 Pitch
 Workin
 Diamer
 Workin
 Diamer