Rpt. 4.

No. 40685.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 21 MAR

Date of writing Report 20.3.1930 When handed in at Local Office 20 March 1930 Port of HULL.

No. in Reg. Book. 10810 on the Survey held at Hull. Date, First Survey 29 Augst. Last Survey 15 March 1930. (Number of Visits ...)

Built at Selby. By whom built Cochrane & Sons Ld Yard No. 1671. When built 1930

Tons Gross 355.84 Net 141.18

Engines made at Hull By whom made Amos & Smith Ld Engine No. 598 when made 1930

Boilers made at Hull By whom made do Boiler No. 598 when made 1930

Registered Horse Power Owners Direct Steam Trawling Co Ld Port belonging to Fleetwood

Nom. Horse Power as per Rule 94 ✓ 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

Dia. of Cylinders 13" - 22¾" - 37" ✓ Length of Stroke 26" ✓ No. of Cylinders 3 Revs. per minute ... No. of Cranks 3

Crank shaft, dia. of journals as per Rule 6.9" as fitted 7½" ✓ Crank pin dia. 7½" ✓ Crank webs Mid. length breadth 14¾" Mid. length thickness 4¾" ✓ shrunk Thickness parallel to axis 4¾" Thickness around eye-hole 3 13/32" ✓

Intermediate Shafts, diameter as per Rule 6.6" as fitted ...

Thrust shaft, diameter at collars as per Rule 6.9" as fitted 7½" ✓

Tube Shafts, diameter as per Rule ✓ as fitted ✓ **Screw Shaft,** diameter as per Rule 7.7" as fitted 8¼" ✓ Is the {tube / screw} shaft fitted with a continuous liner {✓ / Yes}

Bronze Liners, thickness in way of bushes as per Rule ... as fitted 9/16" ✓ Thickness between bushes as per Rule ... as fitted 9/16" ✓ 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 ✓ Length of Bearing in **Stern Bush** next to and supporting propeller 35" ✓

Propeller, dia. 10'-3" ✓ Pitch 10'-7½" No. of Blades 4 Material C.I. whether Moveable No Total Developed Surface 38 sq. feet

Feed Pumps worked from the **Main Engines,** No. One Diameter 2 7/8" Stroke 13" Can one be overhauled while the other is at work ✓

Bilge Pumps worked from the **Main Engines,** No. One Diameter 2 7/8" ✓ Stroke 13" ✓ Can one be overhauled while the other is at work ✓

Feed Pumps {No. and size One 6"×3"×6" ✓ / How driven Steam} **Pumps connected to the Main Bilge Line** {No. and size One 6¼"×4¾"×6" and ejector / How driven Steam}

Ballast Pumps, No. and size ✓ **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 2 @ 2" ✓

In Holds, &c. 4 @ 2" ✓

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 3½" ✓ **Independent Power Pump Direct Suctions** to the Engine Room Bilges, No. and size One, 3" Ejector ✓ 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 + strums

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 Suctions ✓ 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 ✓ Is it fitted with a watertight door ✓ worked from ✓

MAIN BOILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 1725 sq. feet.

Is Forced Draft fitted No No. and Description of Boilers One single ended ✓ Working Pressure 200 lbs

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

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

PLANS. Are approved plans forwarded herewith for Shafting ✓ (If not state date of approval) Main Boilers Yes Auxiliary Boilers ✓ Donkey Boilers ✓

Superheaters ... General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements ✓

SPARE GEAR. State the articles supplied:— 2 Bolts + nuts for top ends, bottom ends, and main bearings. Set of coupling bolts + nuts. Feed, bilge + air pump valves. Safety valve & spring. Main + donkey check valves. Feed pump ram. Circ: pump impeller + spindle. Bolts + nuts of various sizes.

The foregoing is a correct description.
For AMOS & SMITH LTD.

MANAGER Manufacturer.

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002138-002180-0169

Rpt. 5a.

Dates of Survey while building

During progress of work in shops — 1929. Aug 29 Sept 7. Oct 23. Nov 20. 25. 27. Dec 4. 6. 14. 19. 1930. Jany 6. 9. 15. 18. 27.

During erection on board vessel — Feby 6. 10. Mar 4. 5. 10. 13. 13. 15.

Total No. of visits 24.

Dates of Examination of principal parts—Cylinders 9. 1. 30 Slides 15. 1. 30 Covers 9. 1. 30

Pistons 15. 1. 30 Piston Rods 15. 1. 30 Connecting rods 15. 1. 30

Crank shaft 19. 12. 29 Thrust shaft 4. 12. 29 Intermediate shafts ✓

Tube shaft ✓ Screw shaft 4. 12. 29 Propeller 4. 12. 29

Stern tube 4. 12. 29 Engine and boiler seatings 10. 3. 30 Engines holding down bolts 10. 3. 30

Completion of fitting sea connections 27. 1. 30

Completion of pumping arrangements 13. 3. 30 Boilers fixed 10. 3. 30 Engines tried under steam 13. 3. 30

Main boiler safety valves adjusted 13. 3. 30 Thickness of adjusting washers 5 3/8" & 11/32"

Crank shaft material Steel Identification Mark Lloyds 5 30 Thrust shaft material Steel Identification Mark Lloyds 5 30

Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓

Screw shaft, material Steel Identification Mark Lloyds 5 30 Steam Pipes, material S.D. Copper Test pressure 400 lbs. Date of Test 5. 3. 30.

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 the Rules for carrying and burning oil fuel been complied with ✓

Is this machinery duplicate of a previous case Yes If so, state name of vessel "Juanita"

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been built under special survey & the materials and workmanship are found good. It has been satisfactorily fitted on board, tried under working conditions & found in good order. It is eligible in my opinion to have record of +L.M.C. 3.30 C.L.

It is submitted that this vessel is eligible for THE RECORD. +LMC 3.30 CL.

J.H. 24/3/30.

The amount of Entry Fee ... £ 2 : 0 :
Special ... ... £ 24 : 5. :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :

When applied for, 20 Mar 1930.
When received, 22/3/30

John Thackray
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 25 MAR 1930

Assigned +Lmc 3.30 CL

CERTIFICATE WRITTEN.

Certificate to be sent to

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

Date of writing Re

No. in Reg. Book. 10810 Survey on th

Master

Engines made at

Boilers made at

Nominal Horse

MULTITU

Manufacturers

Total Heating S

No. and Descri

Tested by hydro

Area of Firegra

Area of each se

In case of donke

Smallest distanc

Smallest distanc

Largest interna

Thickness

long. seams

Percentage of s

Percentage of s

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Length of plain

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How are stays

Tube plates:

Mean pitch of

Girders to com

at centre

in each

Tensile strength

Pitch of stays to

Working pressu

Thickness

Pitch of stays

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Diameter { At bo / Over th

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