

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office -3 DEC 1929  
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 Writing Report 29 Nov 29 When handed in at Local Office 29 Nov 29 Port of Hull  
 in Survey held at Hull Date, First Survey 4 July Last Survey 27 Nov 19 29  
 Book. (Number of Visits 26)  
 on the Steam Trawler "CASSIO" Tons Gross 280.00 Net 142.85  
 at Beverley By whom built Cook, Welton & Gemmell Ltd Yard No. 530 When built 1929  
 Engines made at Hull By whom made Amos & Smith Ltd Engine No. 593 When made 1929  
 Boilers made at Hull By whom made do Boiler No. 593 When made 1929  
 Registered Horse Power Owners Hull Northern Fishing Co Ltd Port belonging to Hull  
 Horse Power as per Rule 111 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes  
 for which Vessel is intended Fishing.

**ENGINES, &c.**—Description of Engines Triple Expansion Revs. per minute  
 No. of Cylinders 3 23 1/2 Length of Stroke 26 No. of Cranks 3  
 Crank shaft, dia. of journals as per Rule 7.5 as fitted 7 3/4 Crank pin dia. 7 3/4 Crank webs Mid. length breadth 15 Thickness parallel to axis 4 3/4  
 as fitted 7 3/4 Mid. length thickness 4 3/4 Thickness around eye-hole 3 5/8  
 Intermediate Shafts, diameter as per Rule 7.5 as fitted 7 3/4 Thrust shaft, diameter at collars as per Rule 7.5 as fitted 7 3/4  
 Main Shafts, diameter as per Rule 8.1 as fitted 8 3/4 Is the tube screw shaft fitted with a continuous liner Yes  
 Bronze Liners, thickness in way of bushes as per Rule 5/8 as fitted 5/8 Thickness between bushes 5/8 Is the after end of the liner made watertight in the  
 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  
 If so, state type Length of Bearing in Stern Bush next to and supporting propeller 40  
 Propeller, dia. 11'-0" Pitch 10'-8" No. of Blades 4 Material G.I. whether Movable No Total Developed Surface 42 sq. feet  
 Main Engines, No. Two Diameter 23 1/4 Stroke 13 Can one be overhauled while the other is at work Yes  
 Donkey Engines, No. Two Diameter 23 1/4 Stroke 13 Can one be overhauled while the other is at work Yes  
 Pumps connected to the Main Bilge Line No. and size one, 6 1/4 x 4 1/4 x 6 + 2 1/2 Ejector How driven Steam  
 Lubricating Oil Pumps, including Spare Pump, No. and size  
 two independent means arranged for circulating water through the Oil Cooler Suctions, connected to both Main Bilge Pumps and Auxiliary  
 In Engine and Boiler Room 2 @ 2 1/2  
 Holds, &c. 4 @ 2 1/2 one @ 2 1/2 to fore and aft peaks.

**WATER CIRCULATING PUMP DIRECT BILGE SUCTIONS, No. and size one 4" Independent Power Pump Direct Suctions to the Engine Room Bilge**  
 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  
 How are they protected Forward Suctions wood casings  
 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 Yes Is it fitted with a watertight door Yes worked from

**MAIN BOILERS, &c.**—(Letter for record (S)) Total Heating Surface of Boilers 1986 Sq. feet  
 Forced Draft fitted No No. and Description of Boilers one single ended 158 Working Pressure 210 lbs.  
**IS A REPORT ON MAIN BOILERS NOW FORWARDED?** Yes  
**IS A DONKEY BOILER FITTED?** No If so, is a report now forwarded? Yes  
**PLANS.** Are approved plans forwarded herewith for Shafting Main Boilers Yes Auxiliary Boilers Yes Donkey Boilers Yes  
 Superheaters General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements Yes

**SPARE GEAR.** State the articles supplied:—2 Bolts & nuts for top ends, bottom ends & main bearings. Set of coupling bolts & nuts. Set of air, feed and life pump valves. Main & donkey check valves & seats. Safety valve spring. Set of springs for donkey pumps. Spring for each escape valve fitted. Impeller shaft for circulating pump. worked bolts & nuts, & iron of various sizes.

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

*[Signature]*  
 MANAGER.

Manufacturer.



1929.

During progress of work in shops - -  
During erection on board vessel - - -

July 4. 8. 18. Aug 7. 17. 15. 29. 30. Sept 14. 9. 25. Oct 4. 19. 23. 28. 30.

Nov 4. 11. 14. 19. 20. 23. 23. 25. 26. 27

Total No. of visits 26.00

Dates of Examination of principal parts—Cylinders 19. 10. 29 Slides 13. 10. 29 Covers 19. 10. 29  
 Pistons 23. 10. 29 Piston Rods 19. 10. 29 Connecting rods 19. 10. 29  
 Crank shaft 4. 10. 29 Thrust shaft 15. 8. 29 Intermediate shafts ✓  
 Tube shaft ✓ Screw shaft 4. 9. 29 Propeller 4. 9. 29  
 Stern tube 4. 9. 29 Engine and boiler seatings 25. 11. 29 Engines holding down bolts 25. 11. 29  
 Completion of fitting sea connections { 9. 10. 29 }  
 Completion of pumping arrangements { 21. 10. 29 } Boilers fixed 25. 11. 29 Engines tried under steam 27. 10. 29  
 Main boiler safety valves adjusted 26. 11. 29 Thickness of adjusting washers 11/32" + 11/32"  
 Crank shaft material Steel Identification Mark Kings 493 Thrust shaft material Steel Identification Mark Kings 493  
 Intermediate shafts, material Identification Marks Tube shaft, material Identification Mark ✓  
 Screw shaft, material Steel Identification Mark Kings 493 Steam Pipes, material S.A. Copper Test pressure 420 lbs Date of Test 23. 11. 29

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 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 Yes. If so, state name of vessel *Orsino*

**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 sound & good. It has been satisfactorily fitted on board, tried under working conditions & found in good order. It is eligible in my opinion to the record of T.L.M.C. 11. 29.*

*Survey reports were sent with report on sister vessel, S.T. Orsino*

It is submitted that this vessel is eligible for THE RECORD. T.L.M.C. 11. 29. Cl.

*J. Schackidy*  
 3/12/29

The Surveys are requested not to be on or below the space for Committee's Minute.

The amount of Entry Fee ... £ 3 : 0 :  
 Special ... £ 27 : 15 :  
 Donkey Boiler Fee ... £ : :  
 Travelling Expenses (if any) £ : :  
 When applied for, Dec. 29.  
 When received, 14. 12. 29.

*John Schackidy*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

FRI. 6 DEC 1929

Assigned

*T.L.M.C. 11. 29 Cl.*

CERTIFICATE WRITTEN.



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