

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Date of writing Report 29.4.30 When handed in at Local Office 29 April 1930 Port of Hull
 Received at London Office 30 APR 1930
 No. in Survey held at Hull Date, First Survey 14 Dec 29 Last Survey 22 April 1930
 Reg. Book. 11714 on the Steam Trawler "MALMATA" (Number of Visits 19)
 Built at Beverley By whom built Cook, Winton & Gamble Ltd Yard No. 543 Tons Gross 355.68 Net 169.13
 Engines made at Hull By whom made Amos & Smith Ltd Engine No. 602 When built 1930
 Boilers made at Hull By whom made do Boiler No. 602 when made 1930
 Registered Horse Power Owners Malmata Fishing Co Ltd Port belonging to Grimsby
 Nom. Horse Power as per Rule 91 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 Revs. per minute
 Dia. of Cylinders 13" 22 1/4" 37" Length of Stroke 26" No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 6.9 as fitted 7 1/2 Crank pin dia. 7 1/2 Crank webs Mid. length breadth 14 1/4 Mid. length thickness 4 3/4 Thickness parallel to axis 4 1/4 Thickness around eye-hole 3 1/2
 Intermediate Shafts, diameter as per Rule 6.6 as fitted 4 1/8 Thrust shaft, diameter at collars as per Rule 6.9 as fitted 7 1/2
 Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 7.7 as fitted 8 1/2 Is the tube screw shaft fitted with a continuous liner Yes
 Bronze Liners, thickness in way of bushes as per Rule 2 1/8 as fitted Thickness between bushes as per Rule 2 1/8 as fitted 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 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 Yes
 Length of Bearing in Stern Bush next to and supporting propeller 33"
 Propeller, dia. 16'-0" Pitch 10'-10" No. of Blades 4 Material CS whether Moveable No Total Developed Surface 35 sq. feet
 Feed Pumps worked from the Main Engines, No. One Diameter 27/8" Stroke 13" Can one be overhauled while the other is at work Yes
 Bilge Pumps worked from the Main Engines, No. One Diameter 27/8" Stroke 13" Can one be overhauled while the other is at work Yes
 Feed Pumps No. and size One 6" x 3" x 6" How driven Steam Pumps connected to the Main Bilge Line No. and size One 6 3/4" x 4 3/4" x 6 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 3 1/2" 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
 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 Good casing
 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
 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 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 1546 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 Main Boilers Yes Auxiliary Boilers Donkey Boilers
 (If not state date of approval)
 Superheaters General Pumping Arrangements Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:— 2 Bolts & nuts for top ends, bottom ends and main bearings. Lot of coupling bolts & nuts. Feed bilge & air pump valves. Safety valve spring. Main & donkey check valves. 12 Piston Rods & nuts. Spare valves for donkey pumps. Circ. pump impeller & shaft. Bolts & nuts of various sizes.

The foregoing is a correct description.

For AMOS & SMITH LTD.

Manufacturer.

MANAGER.



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Lloyd's Register
Foundation

002085-002093-0272

During progress of work in shops -- 1929. Dec 14. 19. 30. 1930. Jan 6. 9. 23. Feb 6. 10. 12. 20. 26. Mar 12. 18.
Dates of Survey while building During erection on board vessel --- Apr 3. 9. 17. 22.
Total No. of visits 19.

Dates of Examination of principal parts—Cylinders 6. 2. 30 Slides 3. 4. 30 Covers 6. 2. 30
Pistons 5. 4. 30 Piston Rods 12. 2. 30 Connecting rods 12. 2. 30
Crank shaft 12. 2. 30 Thrust shaft 30. 12. 29 Intermediate shafts 30. 12. 29
Tube shaft 6. 1. 30 Screw shaft 6. 1. 30 Propeller 6. 1. 30
Stern tube 6. 1. 30 Engine and boiler seatings 17. 4. 30 Engines holding down bolts 17. 4. 30
Completion of fitting sea connections 18. 3. 30
Completion of pumping arrangements 22. 4. 30 Boilers fixed 17. 4. 30 Engines tried under steam 22. 4. 30
Main boiler safety valves adjusted 22. 4. 30 Thickness of adjusting washers 3/8" and 3/8"
Crank shaft material Steel Identification Mark Lamps 536 Thrust shaft material Steel Identification Mark Lamps 536
Intermediate shafts, material Steel Identification Marks Lamps 536 Tube shaft, material Steel Identification Mark
Screw shaft, material Steel Identification Mark Lamps 536 Steam Pipes, material S.D. Copper Test pressure 400 lbs Date of Test 17. 4. 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 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 If so, state name of vessel "William Wemyss"

General Remarks (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been built under special survey & the materials & 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 have record of + L.M.C. 4. 30 C.L.

The foregoing reports sent herewith refer also to Engine No. 602 previously reported (S.T. King).

It is submitted that this vessel is eligible for 17E RECORD. + L.M.C. 4. 30 C.L.
P. J. 15/30

The amount of Entry Fee ... £ 2 : 0 :
Special ... £ 22 : 15 :
Donkey Boiler Fee ... £ : :
Travelling Expenses (if any) £ : :
When applied for, 29 April 1930
When received, 1. 5. 30

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

Committee's Minute FRI. 2 MAY 1930
Assigned + L.M.C. 4. 30

Date of writing Report
No. in Survey Reg. Book.
11714 on the
Master
Engines made at
Boilers made at
Nominal Horse Power

MULTITUBULAR

Manufacturers of
Total Heating Surface
No. and Description
Tested by hydraulic
Area of Firegrate
Area of each set
In case of donkey
Smallest distance
Smallest distance
Largest internal
Thickness
long. seams

Percentage of strength
Percentage of strength
Thickness of butt
Material
Length of plain
Dimensions of stay
End plates in stay
How are stays secured
Tube plates: Material
Mean pitch of stay
Girders to combine
at centre 9
in each 3
Tensile strength
Pitch of stays to d
Working pressure
Thickness
Pitch of stays at
Working Pressure
Diameter { At body or Over throat
Working pressure
Diameter { At turned or Over throat