

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 30 DEC 1929

Date of writing Report 19 When handed in at Local Office 28. 12. 19 Port of Hull
 No. in Survey held at Hull Date, First Survey 13. 9. 29 Last Survey 28. 12. 1929
 Reg. Book. on the Steam Trawler "LADY ENID" (Number of Visits 15)
 Built at Beverley By whom built Cook, Winton & Semmell 45 Yard No. 534 Tons { Gross 354.36 Net 149.29
 Engines made at Hull By whom made Charles D. Holmes 56 Engine No. 1382 when made 1929
 Boilers made at Hull By whom made M. I. do Boiler No. 1382 when made 1929
 Registered Horse Power Owners J. & A. ... Port belonging to Hull
 Nom. Horse Power as per Rule 96 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 1/2 - 23 - 37 Length of Stroke 36 No. of Cylinders 3 No. of Cranks 3
 Crank shaft, dia. of journals as per Rule 4.1 Crank pin dia. 4 1/2 Crank webs Mid. length breadth 4 1/2 Thickness parallel to axis 4 7/8
 as fitted 4 1/2 Mid. length thickness 4 7/8 shrunk Thickness around eye-hole 3 3/8
 Intermediate Shafts, diameter as per Rule 6.8 Thrust shaft, diameter at collars as per Rule 7.1
 as fitted Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 8 1/4 Is the tube shaft fitted with a continuous liner Yes
 as fitted Bronze Liners, thickness in way of bushes as per Rule 3/16 Thickness between bushes as per Rule 3/8 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 36
 Propeller, dia. 10'-0" Pitch 10'-10 1/2 No. of Blades 4 Material Cast Iron whether Moveable No Total Developed Surface 34.45 sq. feet
 Feed Pumps worked from the Main Engines, No. one Diameter 3 Stroke 14 1/4 Can one be overhauled while the other is at work
 Bilge Pumps worked from the Main Engines, No. one Diameter 3 Stroke 14 1/4 Can one be overhauled while the other is at work
 Feed Pumps { No. and size one 6 x 4 1/2 x 6 Pumps connected to the { No. and size one 6 x 4 1/2 x 6 + 3" Ejector
 How driven Steam Main Bilge Line 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. 5 @ 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 Inboard Suctions How are they protected Wood 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 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 1098 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? Yes

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 bearing. Set of coupling bolts. Set of air, fuel & bilge
 pump valves. Left valve spring. Main & donkey check valves
 Spare valves for donkey pump. Circ. pump impeller & spindle
 Feed pump ram. Bolts & iron of various sizes.

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

J. D. ...
 Manufacturer.



1929. Feb. 13. 23. Oct. 14. Nov. 6. 11. 17. 20. 24. 28. 30. Dec. 2. 10. 13. 19. 23

Dates of Survey while building

During progress of work in shops - - -

During erection on board vessel - - -

Total No. of visits 15.

Dates of Examination of principal parts—Cylinders 20. 11. 29 Slides 27. 11. 29 Covers 20. 11. 29

Pistons 27. 11. 29 Piston Rods 27. 11. 29 Connecting rods 27. 11. 29

Crank shaft 20. 11. 29 Thrust shaft 14. 10. 29 Intermediate shafts ✓

Tube shaft ✓ Screw shaft 23. 9. 29 Propeller 23. 9. 29

Stern tube 23. 9. 29 Engine and boiler seatings 10. 12. 29 Engines holding down bolts 10. 12. 29

Completion of fitting sea connections 19. 11. 29

Completion of pumping arrangements 19. 12. 29 Boilers fixed 10. 12. 29 Engines tried under steam 19. 12. 29

Main boiler safety valves adjusted 23. 12. 29 Thickness of adjusting washers $F \frac{1}{2}$ A $\frac{9}{16}$

Crank shaft material Steel Identification Mark *Large 503* Thrust shaft material Steel Identification Mark *Large 503*

Intermediate shafts, material ✓ Identification Marks *10* Tube shaft, material ✓ Identification Mark *—*

Screw shaft, material Steel Identification Mark *Large 503* Steam Pipes, material *S.S. pipe* Test pressure 400 lbs. Date of Test 13. 12. 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 carrying and burning oil fuel been complied with ✓

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

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 steam & found in good order. It is eligible in my opinion to have record of + L.M.C. 12. 29 C.L.*

The forging reports will be sent with first entry reports on engines 1383 & 1385, to be forwarded shortly

It is submitted that this vessel is eligible for THE RECORD. + L.M.C. 12. 29 C.L.

J. B.H. 2/1/30

The amount of Entry Fee ... £ 2 : 0

Special ... £ 24 : 0

Donkey Boiler Fee ... £ :

Travelling Expenses (if any) £ :

When applied for, 19. 12. 29

When received, 2. 1. 30

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

Committee's Minute

FRI. 3 JAN 1930

Assigned

+ L.M.C. 12. 29 C.L.

CERTIFICATE WRITTEN.



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

Rpt.

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