

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 6 FEB 1948

Date of writing Report 19 When handed in at Local Office 5 FEB 1948 19 Port of HULL.

No. in Survey held at Hull. Date, First Survey 6. 6. 47. Last Survey 26. 1. 19 48.  
Reg. Book. (Number of Visits 33.)

16693 on the Steam Trawler "MARGARET WICKS". Tons { Gross 365  
Net

Built at Beverley By whom built Cook, Welton & Gemmell Ltd. Yard No. 789 When built 1948

Engines made at Hull By whom made Chas. D. Holmes & Co. Ltd. Engine No. 1756 When made 1948

Boilers made at -do- By whom made -do- Boiler No. 1756 When made 1948

Registered Horse Power - Owners Clifton Steam Trawlers Ltd. Port belonging to Fleetwood

Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which Vessel is intended Ocean-going.

**ENGINES, &c.**—Description of Engines Triple expansion. Revs. per minute 125 ✓

Dia. of Cylinders 12 1/2", 21 1/2", 35" Length of Stroke 26" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule approx. Crank pin dia. 7 3/8" Crank webs Mid. length breadth 14" Thickness parallel to axis 4 7/8" ✓  
as fitted 7 3/8" Mid. length thickness 4 7/8" shrunk Thickness around eye-hole 3.5/16"

Intermediate Shafts, diameter as per Rule approx. Thrust shaft, diameter at collar as per Rule approx.  
as fitted 7 1/8" as fitted 7 3/8"

Tube Shafts, diameter as per Rule - Screw Shaft, diameter as per Rule as approx. Is the { tube } shaft fitted with a continuous liner { - Yes ✓  
as fitted - as fitted 7 7/8" { screw }

Bronze Liners, thickness in way of bushes as per Rule approx. Thickness between bushes as per Rule approx. Is the after end of the liner made watertight in the  
as fitted 9/16" as fitted 15/32" 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 tub  
shaft - If so, state type - Length of Bearing in Stern Bush next to and supporting propeller 2' 11 1/2" ✓

Propeller, dia. 9' 7 1/2" Pitch 10' 3" No. of Blades 4 Material C.I. whether Moveable No Total Developed Surface 36 sq. feet

Feed Pumps worked from the Main Engines, No. 1 Diameter 2 3/4" Stroke 14 1/2" Can one be overhauled while the other is at work -

Bilge Pumps worked from the Main Engines, No. 1 Diameter 2 3/4" Stroke 14 1/2" Can one be overhauled while the other is at work -

Feed Pumps { No. and size 1 - 6"x4 1/2"x6" 1-2 3/4"x14 1/2" Pumps connected to the { No. and size 1 G.S. 6"x4 1/2"x6" 1-2 3/4"x14 1/2"  
How driven Steam. M.E. Main Bilge Line How driven Steam. M.E.

Ballast Pumps, No. and size G.S. as above. 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 E.R. 1 - 2" to oil gutter in B.R.

In Pump Room - In Holds, &c. 2" suction to for'd store room, main fishroom,  
for'd slushwell, spare fishroom, aft slushwell, cofferdam.

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 - 3 1/2" Independent Power Pump Direct Suctions to the Engine Room Bilges,  
No. and size 1 - 2 1/2" bilge ejector. Are all the Bilge Suction Pipes in holds and store and bilge 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 Yes ✓

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 none ✓ How are they protected -

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 1850 sq. ft. ✓

Which Boilers are fitted with Forced Draft Sole boiler ✓ Which Boilers are fitted with Superheaters -

No. and Description of Boilers 1 cyl. multitubular. Working Pressure 210 lb. ✓

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes

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

Can the donkey boiler be used for domestic purposes only -

PLANS. Are approved plans forwarded herewith for Shafting 14.3.47 Main Boilers 22.12.47 Auxiliary Boilers - Donkey Boilers  
(If not state date of approval)

Superheaters - General Pumping Arrangements 5.5.47. Oil fuel Burning Piping Arrangements 30.6.47.

### SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes ✓

State the principal additional spare gear supplied No major items. ✓

The foregoing is a correct description.

FOR CHARLES D. HOLMES & CO., L.

*W.R. Evans*

Manufacturer.



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Lloyd's Register  
Foundation

003895-003905-0100

Dates of Survey while building  
 During progress of work in shops - - 1947. June 6. Sept 11. 26. Oct 9. 10. 14. 24. 25, Nov. 4. 12. 14. 15. 18. 24. 25. Dec. 2. 4. 5. 11. 17. 22.  
 1948. Jan 9. 15. 17.  
 During erection on board vessel - - - 1947. Oct 25. Nov. 1. Dec. 5. 31,  
 1948. Jan. 1. 5. 20. 23. 26,  
 Total No. of visits 33.

M.P. & L.P. 24.11.47.  
 Dates of Examination of principal parts—Cylinders H.P. 15.11.47. Slides 24.11.47. Covers 24.11.47.  
 Pistons 24.11.47. Piston Rods 24.11.47. Connecting rods 24.11.47.  
 Crank shaft 4.11.47. Thrust shaft 19.3.47. 26.9.47. Intermediate shafts 14.4.47. 26.9.47.  
 Tube shaft - Screw shaft 4.3.47. 16.10.47. Propeller 29.10.47.  
 Stern tube 29.10.47. Engine and boiler seatings 5.12.47. Engines holding down bolts 2.1.48.  
 Completion of fitting sea connections 27.10.47.  
 Completion of pumping arrangements 20.1.48. Boilers fixed 5.12.47. Engines tried under steam 26.1.48.  
 Main boiler safety valves adjusted 20.1.48. Thickness of adjusting washers P. 5/16" S. 1/32".  
 Crank shaft material S.M. Steel Identification Mark LLOYD'S 9866 CP 26.3.47. Thrust shaft material S.M. Steel Identification Mark LLOYD'S 9608 CP 12.4.47. Journal 9661 CP 14.4.47. DAC 26.9.47.  
 Intermediate shafts, material -do- Identification Marks LLOYD'S 9659 CP 14.4.47. Tube shaft, material - Identification Mark -  
 Screw shaft, material -do- Identification Mark LLOYD'S 9578 CP 4.3.47. Steam Pipes, material Copper Test pressure 450 lb. Date of Test 15.1.48.  
 Is an installation fitted for burning oil fuel Yes Is the flash point of the oil to be used over 150°F. Yes  
 Have the requirements of the Rules for the use of oil as fuel been complied with Yes  
 Is the vessel (not being an oil tanker) fitted for carrying oil as cargo No 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 No If so, state name of vessel -

**General Remarks** (State quality of workmanship, opinions as to class, &c.)  
 The machinery of this vessel has been constructed and installed under Special Survey in accordance with the Secretary's letters, approved plans and the Rules. The materials and workmanship are good.  
 On completion the main and auxiliary machinery was examined under working conditions and found in order.  
 The machinery is eligible in my opinion to have the Notation:-  
 +LMC 1,48 C.L. 3 cyl. 12½", 21½". 35" - 26".  
 210 lb. 1 S.B.  
 3 cf. H.S. 1850 sq.ft. F.D.  
 Fitted for oil fuel 1,48 F.P. above 150°F.

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

The amount of Entry Fee ... £	:	:	When applied for,
Special +LMC ... £ 34.13	:	5	FEB 1948
Donkey Boiler Fee ... £	:	:	When received,
Travelling Expenses (if any) £	:	:	19

M. Chambers, Dalhousie  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FEB. 19 MAR 1948

Assigned + LMC. 1.48 Fitted for oil fuel 1.48 F.P. above 150°F.  
 F.O. C.L. 1. SB 210 lb.

