

## REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

4 JUL 1936

Received at London Office

Date of writing Report

1. 7. 36

When handed in at Local Office

1. 7. 36

Port of MIDDLESBROUGH.

No. in Survey held at

SOUTH BANK.

Date, First Survey

Last Survey

26. 6. 1936.

Reg. Book.

on the Steam trawler "LOCH MONTEITH"

(Number of Visits)

Gross 530

Tons Net 194

When built 1936.

Built at South Bank.

By whom built Smiths Dock Co. Ltd.

Yard No. 1003.

Engine No. 461.

when made 1936.

Engines made at do.

By whom made do.

Engine No. 461.

when made 1936.

Boilers made at Hartlepool

By whom made Richardson, Westgarth &amp; Co. Ltd.

Boiler No. D. 461.

when made 1936.

Registered Horse Power

Owners Loch Fishing Co. of Hull Ltd.

Port belonging to Hull

Horse Power as per Rule 165

Is Refrigerating Machinery fitted for cargo purposes no

Is Electric Light fitted Ys.

for which Vessel is intended

Fishing

NES, &amp;c.—Description of Engines Compound Uniflow

Revs. per minute 145.

Cylinders 11 1/2 (2) 27 1/2 (2)

Length of Stroke 25 1/2

No. of Cylinders 4

No. of Cranks 4

shaft, dia. of journals as per Rule 8.6

Crank pin dia. 8 3/4

Crank webs

Mid. length breadth 14 1/2

Thickness parallel to axis 5 1/2

as fitted 8 3/4

as per Rule 8.15

Mid. length thickness 5 3/4

Thickness around eye-hole 3 1/2

Intermediate Shafts, diameter as per Rule 8 1/2

as fitted 8 1/2

Thrust shaft, diameter at collars as per Rule 8.6

as fitted 8 3/4

Shafts, diameter as per Rule 9.0

Screw Shaft, diameter as per Rule 9 1/4

Is the shaft fitted with a continuous liner Ys.

as fitted 9 1/4

as fitted 9 1/4

Is the shaft fitted with a continuous liner Ys.

Liners, thickness in way of bushes as per Rule 19

as fitted 19

Thickness between bushes as per Rule 19

as fitted 19

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

Ys.

Ys.

Ys.

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

Ys.

Ys.

Ys.

Liners are fitted, is the shaft lapped or protected between the liners

Ys.

Ys.

Ys.

If so, state type

Ys.

Ys.

Ys.

Length of Bearing in Stern Bush next to and supporting propeller

3'-9 1/2"

Ys.

Ys.

Propeller, dia. 10'-0 1/2"

Pitch 10'-3"

No. of Blades 4

Material C.I.

whether Moveable no

Total Developed Surface 40

sq. feet

Ys.

Pumps worked from the Main Engines, No. 1

Diameter 3 1/2"

Stroke 11"

Can one be overhauled while the other is at work

Ys.

Ys.

Ys.

Ys.

Pumps worked from the Main Engines, No. 1

Diameter 3 1/2"

Stroke 11"

Can one be overhauled while the other is at work

Ys.

Ys.

Ys.

Ys.

No. and size 1-6" x 4 1/2" x 6" DUPLEX &amp; INJECTOR

How driven Steam

Pumps connected to the Main Bilge Line

No. and size 1-6" x 4 1/2" x 6" DUPLEX &amp; EJECTOR

How driven Steam

Ys.

Ys.

Ys.

Pumps, No. and size 1-6" x 4 1/2" x 6" DUPLEX

Lubricating Oil Pumps, including Spare Pump, No. and size

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Independent means arranged for circulating water through the Oil Cooler

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Pumps;—In Engine and Boiler Room 2-2"

1-2 1/2" FOR SLUSH WELL; 1-2" AFT SLUSH WELL; 1-2" FOR STORE

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Is, &amp;c.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Water Circulating Pump Direct Bilge Suctions, No. and size 1-4 1/2"

Independent Power Pump Direct Suctions to the Engine Room Bilges,

No. and size 1-2 1/2" EJECTOR

Are all the Bilge Suction Pipes in holds and bilges fitted with strum-boxes

Ys.

Ys.

Ys.

Ys.

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

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Sea Connections fitted direct on the skin of the ship

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Are they fitted with Valves or Cocks

both

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Are the Overboard Discharges above or below the deep water line

above

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Are the Blow Off Cocks fitted with a spigot and brass covering plate

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

How are they protected

Steel casings &amp; lagged

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Have they been tested as per Rule

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

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

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Is the Shaft Tunnel watertight

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Is it fitted with a watertight door

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

worked from

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Main BOILERS, &amp;c.—(Letter for record S.)

Total Heating Surface of Boilers 2714 sq. ft.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Approved Draft fitted

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

No. and Description of Boilers 1 S.B.

Working Pressure 225 lbs.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

A REPORT ON MAIN BOILERS NOW FORWARDED?

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

A DONKEY BOILER FITTED?

no

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

If so, is a report now forwarded?

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Are approved plans forwarded herewith for Shafting

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

(If not state date of approval)

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Main Boilers

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Auxiliary Boilers

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Donkey Boilers

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

Ys.

General Pumping Arrangements

Ys.

Ys.

Ys.

Ys.

Ys.



Dates of Survey while building

During progress of work in shops - -

During erection on board vessel - - -

Total No. of visits

1935/1 Dec. 5. 1936/1 Jan. 5. 8. 14. 22. 27. 29. 30 Feb. 3. 4. 9. 12. 17. 19. 24. 25. 27 Mar. 4. 13. 17. 19. 22. 31 Apr. 2. 6. 14

May 19. 20. 22. 28 Jun. 3. 8. 12. 15. 22. 23. 26

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Dates of Examination of principal parts—Cylinders 13. 3. 36. Slides 17. 3. 36. Covers 13. 3. 36.  
Pistons 17. 3. 36 Piston Rods 4. 3. 36. Connecting rods 23. 3. 36.  
Crank shaft 4. 3. 36 Thrust shaft 14. 2. 36. Intermediate shafts 3. 4. 36.  
Tube shaft ✓ Screw shaft 3. 4. 36. Propeller 19. 5. 36.  
Stern tube 14. 5. 36. Engine and boiler seatings 20. 5. 36. Engines holding down bolts 28. 5. 36.  
Completion of fitting sea connections 19. 5. 36.  
Completion of pumping arrangements 26. 6. 36. Boilers fixed 28. 5. 36. Engines tried under steam 26. 6. 36.  
Main boiler safety valves adjusted 12. 6. 36 Thickness of adjusting washers bolt  $\frac{11}{32}$  Superheater  $\frac{9}{32}$   
Crank shaft material S.M. Steel Identification Mark CRR 7. 2. 36 Thrust shaft material S.M. Steel Identification Mark CRR 14. 2. 36  
Intermediate shafts, material S.M. Steel Identification Marks CRR 3. 4. 36 Tube shaft, material — Identification Mark —  
Screw shaft, material S.M. Steel Identification Mark CRR 3. 4. 36 Steam Pipes, material Steel ✓ Test pressure 67.5 lb. Date of Test 8. 6. 36.  
Is an installation fitted for burning oil fuel no. 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 no. If so, have the requirements of the Rules 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 materials and workmanship are good.

This machinery has been built under special survey and in accordance with the Rules and Approved Plans. It has been runnably fitted aboard and tested under working conditions with satisfactory results and is, in my opinion, eligible for classification with record + h.M.C. 6. 36.

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

The amount of Entry Fee ... £ 3-0-0 When applied for,  
Special Less Boiler Fee ... £ 22-19-0 27 1936  
Donkey Boiler Fee ... £ : : When received,  
Travelling Expenses (if any) £ : : 1-9 36 219

Committee's Minute

FRI 17 JUL 1936

Assigned

+ Lmb. 6. 36  
J.D. C.L.

P. J. McA.

Engineer Surveyor to Lloyd's Register of Shipping.



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Foundation