

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 17 FEB 7

Date of writing Report 11. 2. 1937. When handed in at Local Office 11. 2. 1937. Port of **MIDDLESBROUGH**

No. in Survey held at Reg. Book. **SOUTH BANK.** Date, First Survey 17 October/36. Last Survey 3 2. 1937. (Number of Visits 27)

on the Steam Trawler **"KELT"**

Built at **South Bank** By whom built **Smiths Dock Co Ltd** Yard No. 1020 Tons Gross 455. Net 165. When built 1937.

Engines made at **do.** By whom made **do.** Engine No. 486. when made 1937.

Boilers made at **Hartlepool** By whom made **Richardsons Wetgates** Boiler No. D. 486 when made 1937.

Registered Horse Power Owners **Hull Northern Fishing Co. Ltd.** Port belonging to **Hull.**

Nom. Horse Power as per Rule 132.6. Is Refrigerating Machinery fitted for cargo purposes 40. Is Electric Light fitted 46.

Trade for which Vessel is intended **Fishing**

ENGINES, &c.—Description of Engines **Triple Expansion** Revs. per minute 140.

Dia. of Cylinders 13 1/2 · 22 1/2 · 39 Length of Stroke 26 No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 7 7/8 Crank pin dia. 8 Crank webs Mid. length breadth 1 1/2 Mid. length thickness 4 15/16 Thickness parallel to axis 4 15/16 Thickness around eye-hole 3 1/2

Intermediate Shafts, diameter as per Rule 7.37 as fitted 7 1/2 Thrust shaft, diameter at collars as per Rule 7.74 as fitted 7 1/8

Tube Shafts, diameter as per Rule as fitted Screw Shaft, diameter as per Rule 8.18 as fitted 8 1/2 Is the shaft fitted with a continuous liner Yes

Bronze Liners, thickness in way of bushes as per Rule 9/16 as fitted 9/16 Thickness between bushes as per Rule 9/16 as fitted 9/16 Is the after end of the liner made watertight in the propeller boss 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 No

Propeller, dia. 10' 0" Pitch 9' 9" No. of Blades 4 Material C.D. whether Movable No Total Developed Surface 36 sq. feet

Feed Pumps worked from the Main Engines, No. 1 Diameter 3" Stroke 13 1/2 Can one be overhauled while the other is at work Yes

Bilge Pumps worked from the Main Engines, No. 1 Diameter 3" Stroke 13 1/2 Can one be overhauled while the other is at work Yes

Feed Pumps No. and size 1-6" x 4 1/2" x 6" Duplex How driven Steam Pumps connected to the Main Bilge Line No. and size 1-6" x 4 1/2" x 6" Duplex & EJECTOR How driven Steam

Ballast Pumps, No. and size 1-6" x 4 1/2" x 6" Lubricating Oil Pumps, including Spare Pump, No. and size Yes

Are two independent means arranged for circulating water through the Oil Cooler Yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 2-2" In Holds, &c. 1-2" For STORE, 2-2 1/2" Sludge Tank, 2-2" Fish Room.

Main 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" TO 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 bunker Steam to wind swimmers, wash deck How are they protected lapped & steel casings

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 none Is it fitted with a watertight door worked from

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 2500 sq. ft. 2467 sq. ft. Working Pressure 225 lbs.

Is Forced Draft fitted Yes No. and Description of Boilers 1 SB.

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 8.9.33. Main Boilers Auxiliary Boilers Donkey Boilers

Superheaters 6.10.33 General Pumping Arrangements 2.12.36 Oil fuel Burning Piping Arrangements

SPARE GEAR. State the articles supplied:—As per Rule + 1 C.D. propeller, 6 piston bolts & nuts, 1 safety valve spring, 1 spring for each size of escape valve, 1 main check valve lid, 1 donkey check valve lid, 1 oct air pump valve.

The foregoing is a correct description, FOR SMITH'S DOCK CO. LTD.

W. Stanley

Manufacturer.



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Dates of Survey while building

During progress of work in shops - - - 1936 Oct 17 27 28 30 Nov 3 4 11 16 19 24 Dec 2 3 7 10 14 15 17 29

During erection on board vessel - - - 1937 Jan 6 9 14 19 22 26 29 Feb 2 3

Total No. of visits 27

Dates of Examination of principal parts—Cylinders 29. 12. 36. Slides 29. 12. 36. Covers 29. 12. 36.

Pistons 10. 12. 36 Piston Rods 10. 12. 36 Connecting rods 15. 12. 36.

Crank shaft 10. 12. 36 Thrust shaft 27. 10. 36 Intermediate shafts 27. 10. 36

Tube shaft / Screw shaft 27. 10. 36 Propeller 15. 12. 36.

Stern tube 17. 12. 36 Engine and boiler seatings 29. 12. 36. Engines holding down bolts 14. 1. 37.

Completion of fitting sea connections 29. 12. 36.

Completion of pumping arrangements 2. 2. 37 Boilers fixed 14. 1. 37. Engines tried under steam 3. 2. 37.

Main boiler safety valves adjusted 29. 1. 37. Thickness of adjusting washers Port $\frac{7}{16}$ " Star $\frac{3}{8}$ " Super. $\frac{5}{16}$ "

Crank shaft material S.M. Steel Identification Mark LLOYD'S NO 2758 CRR 27.1036 Thrust shaft material S.M. Steel Identification Mark LLOYD'S NO 2759 CRR 27.1036

Intermediate shafts, material S.M. Steel Identification Marks LLOYD'S NO 2760 CRR 27.1036 Tube shaft, material / Identification Mark /

Screw shaft, material S.M. Steel Identification Mark LLOYD'S NO 2761 CRR 27.1036 Steam Pipes, material Steel Test pressure 675 lbs. Date of Test 26. 1. 37.

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 Yes. If so, state name of vessel 'BENGALI'

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 in accordance with the Rules and Approved Plans. It has been securely fitted aboard and tested under working conditions with satisfactory results and is, in my opinion, eligible for classification with record + L.M.C. 2.37. SPT.

The amount of Entry Fee ... £ 3-0-0 When applied for,

Special ^{LASS BOILER} ... £ 16-12-0 16. 2. 1937

Donkey Boiler Fee ... £ : : When received,

Travelling Expenses (if any) £ : : 2. 4. 1937

P. M. Allen
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE 9 MAR 1937

Assigned + L.M.C. 2.37 SPT
 J.D., C.L.



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Rpt. 5a.

Date of writing

No. in Reg. Book.

Master

Engines made

Boilers made

Nominal Horsepower

MULTIT

Manufacturers

Total Heating

No. and Description

Tested by hydro

Area of Fire

Area of each

In case of damage

Smallest distance

Smallest distance

Largest internal

Thickness of

long. seams

Percentage of

Percentage of

Thickness of

Material

Length of plating

Dimensions of

End plates in

How are stays

Tube plates:

Mean pitch of

Girders to

at centre

in each

Tensile strength

Pitch of stays to

Working pressure

Thickness

Pitch of stays

Working Pressure

Diameter

Working pressure

PILLAI

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Centre

Stiff

Plat

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UPPER

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STRAKE

strake

STRAKE

strake

POOP SID

BRIDGE S

FOREC'TL

Total N

BULKY

Excap.

MIDSH

"

"

"

COLLIS

AFTER

STEEL

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