

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 16 JAN 1935

Date of writing Report 15 JAN 1935 When handed in at Local Office 15 JAN 1935 Port of HULL

No. in Survey held at Hull Reg. Book. Date, First Survey 9th August 1934 Last Survey 8th January 1935

on the Steel S.S. "Strangely" Built at Selby By whom built BOCHRAE & SONS LTD. Yard No. 1132 Tons Gross 433.51 Net 236.86

Engines made at Hull By whom made AMOS & SMITH LTD. Engine No. 639 When built 1935.1

Boilers made at Hull By whom made AMOS & SMITH LTD. Boiler No. 639 When made 1935

Registered Horse Power Owners Rindovia Steam Fishing Co. Ltd. Port belonging to Grimsby

Nom. Horse Power as per Rule 110 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted yes.

Trade for which Vessel is intended Fishing

**ENGINES, &c.**—Description of Engines

Dia. of Cylinders 14" 23 1/2" 38 1/2" Length of Stroke 26 No. of Cylinders 3 Revs. per minute 3

Crank shaft, dia. of journals as per Rule 7.7" as fitted 7.75" Crank pin dia. 7.75" No. of Cranks 3

Intermediate Shafts, diameter as per Rule 7.33" as fitted 7.5" Thrust shaft, diameter at collars as per Rule 7.7" as fitted 7.75" Single collar

Tube Shafts, diameter as per Rule 8.185" as fitted 8.75" Is the screw shaft fitted with a continuous liner? Yes

Bronze Liners, thickness in way of bushes as per Rule 16.5/32" as fitted 20/32" Thickness between bushes as per Rule 12.5/32" as fitted 20/32" 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? No

Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft? No

Length of Bearing in Stern Bush next to and supporting propeller 36"

Propeller, dia. 10' 3" Pitch 10' 10 1/2" No. of Blades 4 Material C.I. whether Moveable No. Total Developed Surface 38 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 13" Can one be overhauled while the other is at work? Yes

Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 13" Can one be overhauled while the other is at work? Yes

Feed Pumps No. and size 2 Duplex @ 6 1/4" x 4 3/4" x 6" Pumps connected to the Main Bilge Line No. and size 1 Duplex @ 6 1/4" x 4 3/4" x 6" and Ejector 2 1/2" How driven Steam

Ballast Pumps, No. and size as above Lubricating Oil Pumps, including Spare Pump, No. and size

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 1/2" dia.

In Pump Room In Holds, &c. 5 @ 2" dia. also 2 @ 2" dia. S.B. tank suction

**Main Water Circulating Pump Direct Bilge Suctions, No. and size** 1 @ 4" **Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size** Ejector 2 1/2" dia.

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 suction & S.B.T. suction How are they protected? Wood casings covered by sheet iron.

What pipes pass through the deep tanks? Have they been tested as per Rule? Yes

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? Yes

Is it fitted with a watertight door? worked from

**MAIN BOILERS, &c.**—(Letter for record "S") Total Heating Surface of Boilers 1960 sq. ft.

Is Forced Draft fitted? No

No. and Description of Boilers One single ended. Working Pressure 210 lbs

**IS A REPORT ON MAIN BOILERS NOW FORWARDED?** Yes.

**IS A DONKEY BOILER FITTED?** No

If so, is a report now forwarded? Yes

Is the donkey boiler intended to be used for domestic purposes only? Yes

**PLANS.** Are approved plans forwarded herewith for Shafting? Yes

Main Boilers? Yes

Auxiliary Boilers? Yes

Donkey Boilers? Yes

Superheaters? Yes

General Pumping Arrangements? Yes

Oil fuel Burning Piping Arrangements? Yes

### SPARE GEAR.

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

State the principal additional spare gear supplied: Main & donkey check valves & seats, Air pump & donkey pump valves, Circulating pump shaft, Relief valve springs.

The foregoing is a correct description,

For AMOS & SMITH LTD.  
 Manufacturer **A. H. Reaney**  
 Lloyd's Register Foundation  
 MANAGER

1934  
 During progress of work in shops - - Aug 9, 17, 24, Sept 4, 13, 19, Oct 4, 8, 11, 19, 27, 30, Nov 2, 14, 15, 19, 22, 24, 29, 30, Dec 4, 6, 7, 10, 14, 14, 19, 21, 21, 24, 28, 29, 31.  
 During erection on board vessel - - 1935 Jan 1, 2, 7, 8.  
 Total No. of visits 37.

Dates of Examination of principal parts—Cylinders 7-12-34 Slides 30-11-34 Covers 30-11-34  
 Pistons 7-12-34 Piston Rods 7-12-34 Connecting rods 30-11-34  
 Crank shaft 27-11-34 Thrust shaft 8-10-34 Intermediate shafts 14-11-34  
 Tube shaft ✓ Screw shaft 2-11-34 Propeller 27-10-34  
 Stern tube 19-10-34 Engine and boiler seatings 28-12-34 Engines holding down bolts 28-12-34

Completion of fitting sea connections 14-11-34  
 Completion of pumping arrangements 2-1-35 Boilers fixed 28-12-34 Engines tried under steam 7-1-35  
 Main boiler safety valves adjusted 7-1-35 Thickness of adjusting washers F 5/16" A 11/32"

Crank shaft material Steel Identification Mark 742 Thrust shaft material Steel Identification Mark 742  
 Intermediate shafts, material Steel Identification Marks 742 Tube shaft, material ✓ Identification Mark 742

Screw shaft, material Steel Identification Mark 742 Steam Pipes, material SD Steel Test pressure 630 lb/sq in Date of Test 29-12-34  
 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 ✓

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 built under special survey and the material and workmanship are sound & good.

It has been satisfactorily fitted on board, tried under working conditions and found in good order.

It is eligible in my opinion to have record LMC-1,35 C.L.

Handwritten notes and signatures in the lower section of the page, including "L. Knoffatt" and "Engineer Surveyor to Lloyd's Register of Shipping".

The amount of Entry Fee ... £ 3 : 0 :  
 Special ... £ 27 : 10 :  
 Donkey Boiler Fee ... £ : :  
 Travelling Expenses (if any) £ : :

When applied for, 15 JAN 1935  
 When received, 23 2 19 35

Committee's Minute FRI. 25 JAN 1935  
 Assigned + Lmb 1.35 L



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

CERTIFICATE WRITTEN