

REPORT ON MACHINERY.

No. 37025

Received at London Office
 Date of writing Report 11/5/26 Port of Hull
 No. in Survey held at Hull Date, First Survey 3-11-25 Last Survey 3-5-1926
 Reg. Book. 10603 on the Steam Trawler "ISLANDE" (Number of Visits 34)
 Master Built at Cam. By whom built Chantiers Navals Français No 72 Tons Gross 1032 Net
 Engines made at Hull By whom made Ames & Smith Ltd. No 3695 when made 1926
 Boilers made at Hull By whom made Ames & Smith Ltd. No 3695 when made 1926
 Registered Horse Power Owners J. Hurst. Port belonging to Bordeaux.
 Nom. Horse Power as per Section 28 145 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 16 x 27 x 44 Length of Stroke 30 Revs. per minute 112 Dia. of Screw shaft as per rule 8.925 Material of screw shaft as fitted 9 1/2 steel
 Is the screw shaft fitted with a continuous liner the whole length of the stern tube yes Is the after end of the liner made water tight in the propeller boss yes If the liner is in more than one length are the joints burned 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 Length of stern bush 42
 Dia. of Tunnel shaft as per rule 7.98 Dia. of Crank shaft journals as per rule 8.38 Dia. of Crank pin 8 3/4 Size of Crank webs 17 1/2 x 5 1/2 Dia. of thrust shaft under collars 8 3/4 Dia. of screw 11-4 Pitch of Screw 10-10 No. of Blades 4 State whether moveable no Total surface 40 sq ft
 No. of Feed pumps 2 Diameter of ditto 2 3/4 Stroke 16 Can one be overhauled while the other is at work yes
 No. of Bilge pumps 2 Diameter of ditto 2 3/4 Stroke 16 Can one be overhauled while the other is at work yes
 No. of Donkey Engines 2 Sizes of Pumps 6 1/4 x 4 3/4 x 6, 7 x 8 x 8 No. and size of Suctions connected to both Bilge and Donkey pumps In Engine Room Main, 2 dia; Main & auxy 2 1/2 dia. In Holds, &c. One 2 1/2 to each stow well.
 No. of Bilge Injections 1 sizes 5 Connected to condenser, or to circulating pump pump Is a separate Donkey Suction fitted in Engine room & size 2 1/2, 3 1/2
 Are all the bilge suction pipes fitted with roses Are the roses in Engine room always accessible Are the sluices on Engine room bulkheads always accessible
 Are all connections with the sea direct on the skin of the ship yes Are they 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 Discharge Pipes 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 are carried through the bunkers Forward suction How are they protected steel casings
 Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times yes
 Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges yes
 Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record S) Manufacturers of Steel William Beardmore & Co. Ltd.
 Total Heating Surface of Boilers 2642 Is Forced Draft fitted no No. and Description of Boilers One S.E. Main
 Working Pressure 180 lbs. Tested by hydraulic pressure to 320 lbs. Date of test 8-3-26 No. of Certificate 3589
 Can each boiler be worked separately Area of fire grate in each boiler 80 sq ft No. and Description of Safety Valves to each boiler 2 spring loaded Area of each valve 5.94 sq in Pressure to which they are adjusted 180 lbs Are they fitted with easing gear yes
 Smallest distance between boilers or uptakes and bunkers or woodwork alt 9 in Mean dia. of boilers 16-3 5/16 Length 11-0 Material of shell plates S
 Thickness 1 1/32 Range of tensile strength 28/32 lbs Are the shell plates welded or flanged no Descrip. of riveting: cir. seams D.R. long. seams T.R.D.B.S. Diameter of rivet holes in long. seams 1 1/32 Pitch of rivets 9 3/8 Lap of plates on width of butt straps 19 7/8
 Per centages of strength of longitudinal joint rivets 86.5 Working pressure of shell by rules 183 lbs Size of manhole in shell 16 x 12 plate 85.6
 Size of compensating ring 40 x 30 x 1 1/32 No. and Description of Furnaces in each boiler 4 plain Material S Outside diameter 41 5/8
 Length of plain part top 82 1/4 bottom 76 3/4 Thickness of plates crown 13/16 Description of longitudinal joint Welded No. of strengthening rings
 Working pressure of furnace by the rules 201 Combustion chamber plates: Material S Thickness: Sides 11/16 Back 11/16 Top 11/16 Bottom 13/16
 Pitch of stays to ditto: Sides 9 1/2 x 7 1/2 Back 9 x 10 Top 10 x 7 1/2 If stays are fitted with nuts or riveted heads nuts Working pressure by rules 182
 Material of stays S Area at smallest part 1 3/4 dia. Area supported by each stay 90 sq in Working pressure by rules 201 End plates in steam space: Material S Thickness 1 1/4 Pitch of stays 26 3/4 dia. How are stays secured N.W. Working pressure by rules 182 Material of stays S
 Area at smallest part 3 1/2 dia. Area supported by each stay 460 sq in Working pressure by rules 206 Material of Front plates at bottom S
 Thickness 31/32 Material of Lower back plate S Thickness 23/32 Greatest pitch of stays 13 1/2 x 10 1/2 Working pressure of plate by rules 230
 Diameter of tubes 3 1/4 Pitch of tubes 4 3/4 x 4 1/2 Material of tube plates S Thickness: Front 15/16 Back 27/32 Mean pitch of stays 9 x 9 1/2
 Pitch across wide water spaces 13 1/2 Working pressures by rules 222 lbs. Girders to Chamber tops: Material S Depth and thickness of girder at centre 9 x 1 3/4 Length as per rule 2-10 Distance apart 10 Number and pitch of stays in each 3 @ 7 1/2
 Working pressure by rules 199 Steam dome: description of joint to shell % of strength of joint
 Diameter Thickness of shell plates Material Description of longitudinal joint Diam. of rivet holes
 Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed
 SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to
 Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler
 Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

W1045-0037

IS A DONKEY BOILER FITTED?

No

If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:— Two top end belts & nuts, 2 bottom end belts & nuts, 2 main bearing belts & nuts, 1 set coupling belts, 1 set feed, bilge, & air pump valves; 1/2 set fire bars; 1 piston rod; 1 valve spindle, 1 bilge pump plunger, 1 link block; 20 boiler tubes; Piston rings for all cylinders; pair connecting rod brasses; 16 condenser tubes; Impeller & shaft for centrifugal pump; 1 main bearing brass; 4 white metal thrust shoes.

The foregoing is a correct description For AMOS & SMITH LTD.

A. F. Robinson Manufacturer. DIRECTOR.

Dates of Survey while building: During progress of work in shops - 1925: - Nov 3, 5, 14, 23, Dec 2, 10, 16, 31, 1926: - Jan 2, 6, 11, 14, 18, 28, 30 Feb 3, 8, 11, 19, 26, Mar 3, 8, 22, 30, 31 Apr 8, 12, 13, 15, 19, 22, 26, 29 May 3. Total No. of visits 34

Is the approved plan of main boiler forwarded herewith yes

Is the approved plan of main boiler forwarded herewith " donkey " " " ✓

Dates of Examination of principal parts - Cylinders 30-1-26 Slides 11-2-26 Covers 30-1-26 Pistons 11-2-26 Rods 8-2-26 Connecting rods 8-2-26 Crank shaft 30-1-26 Thrust shaft 28-1-26 Tunnel shafts ✓ Screw shaft 2-1-26 Propeller 2-1-26 Stern tube 2-1-26 Steam pipes tested 15-4-26 Engine and boiler seatings 30-3-26 Engines holding down bolts 13-4-26 Completion of pumping arrangements Boilers fixed 13-4-26 Engines tried under steam 3-5-26 Completion of fitting sea connections Stern tube Screw shaft and propeller Main boiler safety valves adjusted 3-5-26 Thickness of adjusting washers F. 1 1/16 A. 1 1/8 Material of Crank shaft Steel Identification Mark on Do. 208 P.F. Material of Thrust shaft Steel Identification Mark on Do. 208 P.F. Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts Steel Identification Marks on Do. 208 P.F. Material of Steam Pipes S.D. Copper. 5" dia. 4 SWG. ✓ Test pressure 400 lbs per sq. in. 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 Section 49 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 engines & boiler of this vessel have been built under special survey, & in accordance with the approved plans & the rules of this Society. The materials & workmanship are good. The machinery has been satisfactorily fitted on board, tried under working conditions, & found good. The steam & feed pipes have been tested by hydraulic pressure as required by the Rules. The safety valves have been adjusted under steam & tried for accumulation. The machinery will be eligible in my opinion to have the record LMC 5.26. C.L. when the following items have been completed:-

To complete:- Bilge & tank suction to try. Reversing engine, which was somewhat stiff on trial, to try. Donkey check valve to be overhauled. The vessel has returned to Caen, where this will be done. The Caen Surveyor has been notified. (Examined by the Caen Surveyor see Caen ltr. 3.6.26.)

It is submitted that this vessel is eligible for THE RECORD. + LMC 5.26. C.L.

The amount of Entry Fee ... £ 3 : - : When applied for, Special ... £ 36 : 5 : 3/5/1926 Donkey Boiler Fee ... £ : : When received, Travelling Expenses (if any) £ 1 : : 3/5/1926

P. Fitzgerald. Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES, 8 JUN 1926 Assigned + L.M.C. 5.26 C.L.

