

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

-1 NOV 1933

Date of writing Report 19 31 OCT 1933 When handed in at Local Office Hull Port of Hull  
 No. in Survey held at 1-8-33 Date, First Survey 26. 10. 1933 Last Survey  
 Reg. Book. 19 (Number of Visits)  
 on the Steam Trawler "LORENZO" Tons { Gross 424.11  
 Net 163.24  
 Built at Beverly By whom built Cook, Weston & Gemmell Ld Yard No. 549 When built 1933  
 Engines made at Hull By whom made Charles D. Engine No. 1442 When made 1933  
 Boilers made at Hull By whom made Holmes & Co Ld Boiler No. 1442 When made 1933  
 Registered Horse Power 111 Owners Beluga Bros Ld. Port belonging to Hull  
 Horse Power as per Rule 111 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes  
 for which Vessel is intended Fishing.

**ENGINES, &c.**—Description of Engines Triple Expansion Revs. per minute 3  
 No. of Cylinders 3 Length of Stroke 27" No. of Cranks 3  
 shaft, dia. of journals as per Rule 4.64 Crank pin dia. 4 3/4" Crank webs Mid. length breadth 1 1/4" Thickness parallel to axis 5"  
 as fitted 4 3/4" Mid. length thickness 5" shrunk Thickness around eye-hole 3 1/2"  
 Intermediate Shafts, diameter as per Rule 7 1/2" Thrust shaft, diameter at collars as per Rule 4.64  
 as fitted 7 1/2" as fitted 4 3/4"  
 Shafts, diameter as per Rule 8 3/4" Is the { tube } shaft fitted with a continuous liner { Yes }  
 as fitted 8 3/8" { screw }  
 Liners, thickness in way of bushes as per Rule 9/16" Thickness between bushes as per Rule 9/16" Is the after end of the liner made watertight in the  
 as fitted 9/16" 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  
 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  
 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  
No If so, state type — Length of Bearing in Stern Bush next to and supporting propeller 36"  
 Propeller, dia. 10'-3" Pitch 10'-0 1/2" No. of Blades 4 Material Cast whether Moveable No Total Developed Surface 38 sq. feet  
 Pumps worked from the Main Engines, No. one Diameter 3" Stroke 15" Can one be overhauled while the other is at work Yes  
 Pumps worked from the Main Engines, No. one Diameter 3" Stroke 15" Can one be overhauled while the other is at work Yes  
 No. and size one 6" x 3 1/2" x 6" Pumps connected to the Main Bilge Line No. and size one 7" x 5" x 6"  
 How driven one 7" x 5" x 6" How driven Steam  
 Lubricating Oil Pumps, including Spare Pump, No. and size —  
 independent means arranged for circulating water through the Oil Cooler — Suctions, connected to both Main Bilge Pumps and Auxiliary  
 pumps;—In Engine and Boiler Room 2 @ 2"  
 In Holds, &c. 5 @ 2" in holds, 1 @ 2" in HP and

**WATER CIRCULATING PUMP DIRECT BILGE SUCTIONS, No. and size** one 3 1/4" **Independent Power Pump Direct Suctions to the Engine Room Bilges,**  
 size one 3" Ejector Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes Yes  
 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  
**Sea Connections** fitted direct on the skin of the ship Yes Are they fitted with Valves or Cocks Both  
 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  
 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  
 pipes pass through the bunkers Wood casings How are they protected Wood casing  
 pipes pass through the deep tanks — Have they been tested as per Rule Yes  
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes  
 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 Yes worked from —

**BOILERS, &c.**—(Letter for record Yes) Total Heating Surface of Boilers 1940 Sq. ft.  
 need Draft fitted No No. and Description of Boilers one Single ended Working Pressure 210 lbs.  
**REPORT ON MAIN BOILERS NOW FORWARDED?** Yes  
**DONKEY BOILER FITTED?** No If so, is a report now forwarded? Yes  
 donkey boiler intended to be used for domestic purposes only —

**N.S.** Are approved plans forwarded herewith for Shafting Yes Main Boilers Yes Auxiliary Boilers Yes Donkey Boilers Yes  
 (If not state date of approval)  
 General Pumping Arrangements Yes Oil fuel Burning Piping Arrangements Yes

### SPARE GEAR.

spare gear required by the Rules been supplied Yes  
 principal additional spare gear supplied Spare valves for air, fuel, bilge & donkey pumps.  
by valve opening. main & donkey check valves. Fuel pump ram.  
Spindle shaft for centrifugal pump.

The foregoing is a correct description,  
 FOR CHARLES D. HOLMES & CO., LTD.

*Handwritten signature*

Manufacturer.



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Dates of Survey while building  
 During progress of work in shops - - 1933 Aug. 1. 5. 10. 15. 21. 29. Sep. 4. 12. 15. 21. Oct. 3. 6. 11. 12. 13. 18. 20. 25. 26  
 During erection on board vessel - - -  
 Total No. of visits 19

Dates of Examination of principal parts—Cylinders 15.9.33 Slides 6.10.33 Covers 15.9.33  
 Pistons 6.10.33 Piston Rods 15.9.33 Connecting rods 15.9.33  
 Crank shaft 12.9.33 Thrust shaft 12.9.33 Intermediate shafts 29.8.33  
 Tube shaft / Screw shaft 29.8.33 Propeller 29.8.33  
 Stern tube 29.8.33 Engine and boiler seatings 13.10.33 Engines holding down bolts 13.10.33  
 Completion of fitting sea connections 15.9.33  
 Completion of pumping arrangements 23.10.33 Boilers fixed 13.10.33 Engines tried under steam 23.10.33  
 Main boiler safety valves adjusted 23.10.33 Thickness of adjusting washers P.  $\frac{9}{32}$  S.  $\frac{5}{16}$   
 Crank shaft material Steel Identification Mark Lloyd's No. 824 Thrust shaft material Steel Identification Mark Lloyd's No. 827  
 Intermediate shafts, material Steel Identification Marks Lloyd's No. 827 Tube shaft, material / Identification Mark /  
 Screw shaft, material Steel Identification Mark Lloyd's No. 827 Steam Pipes, material S.D. Copper Test pressure 420 lbs. Date of Test 18.10.33  
 Is an installation fitted for burning oil fuel / 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 / 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 / If so, state name of vessel "Arab" No. 44134 ✓

**General Remarks** (State quality of workmanship, opinions as to class, &c. The machinery of this vessel has been built under special survey, & the materials & workmanship all sound & good.

It has been satisfactorily fitted on board, tried under working conditions & found in good order. It is eligible in my opinion to have used of + L.M.C. 10.33. C.L.

[Faint handwritten notes and signatures in the lower middle section of the page.]

The amount of Entry Fee ... £ 3 : - : -  
 Special ... £ 27 : 15 : -  
 Donkey Boiler Fee ... £ : : -  
 Travelling Expenses (if any) £ : : -  
 When applied for, 30.10.1933  
 When received, 1.11.1933

John H. Mackay  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 3 NOV 1933**

Assigned + dmb. 10.33

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

CERTIFICATE WRITTEN

