

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

21 OCT 1936

20 OCT 1936

Date of writing Report 19... When handed in at Local Office 19... Port of Hull

No. in Survey held at Hull Date, First Survey 19<sup>th</sup> June, 1936 Last Survey 14<sup>th</sup> October, 1936  
 Reg. Book. 67416 on the Steam hauler "base Palliser" (Number of Visits 22.) Tons { Gross 49472 Net 190.28

Built at Selby By whom built Cochrane & Sons Ltd. Yard No. 1169 When built 1936.10

Engines made at Hull By whom made Charles D. Holmes & Co. Ltd. Engine No. 1497 When made 1936

Boilers made at Hull By whom made Charles D. Holmes & Co. Ltd. Boiler No. 1497 When made 1936.

Registered Horse Power - Owners Hudson Steam Fishing Co. Ltd. Port belonging to Hull.

Nom. Horse Power as per Rule 132 ✓ 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 Triple Expansion Reciprocating Revs. per minute ✓

Dia. of Cylinders 14 1/2" - 24" - 40" Length of Stroke 27" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 8.1 Crank pin dia. 8 1/4" Crank webs Mid. length breadth 15 3/8" Thickness parallel to axis 5 1/4" ✓  
 as fitted 8 1/4" Mid. length thickness 5 1/4" shrunk Thickness around eye-hole 3 9/16" ✓

Intermediate Shafts, diameter as per Rule 7 7/8" Thrust shaft, diameter at collars as per Rule 8.1 ✓  
 as fitted 7 7/8" as fitted 8 1/4" ✓

Tube Shafts, diameter as per Rule ✓ Screw Shaft, diameter as per Rule 8.6" Is the shaft fitted with a continuous liner { Yes ✓  
 as fitted ✓ as fitted 8 3/4" ✓

Bronze Liners, thickness in way of bushes as per Rule 17.8/32" Thickness between bushes as per Rule 18.4/32" Is the after end of the liner made watertight in the propeller boss Yes ✓  
 as fitted 9/16" ✓ as fitted 1/2" ✓

If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner ✓

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

Propeller, dia. 10'-6" Pitch 11'-0" No. of Blades 4 Material C.I. whether Moveable No. ✓ Length of Bearing in Stern Bush next to and supporting propeller 40" ✓  
 Total Developed Surface 41.5 sq. feet ✓

Feed Pumps worked from the Main Engines, No. 2 Diameter 2 3/4" Stroke 15" 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 15" Can one be overhauled while the other is at work Yes ✓

Feed Pumps { No. and size One 6" x 3 1/2" x 6" Simplex Pumps connected to the Main Bilge Line { No. and size One 7" x 5" x 6" Duplex ✓  
 How driven Steam ✓ How driven Steam ✓

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

Are two independent means arranged for circulating water through the Oil Cooler ✓ Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 2 @ 2" dia. ✓  
 In Pump Room In Holds, &c. 5 @ 2" dia. ✓

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 4 3/4" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One 3" 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 Yes ✓

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 ✓ How are they protected Wood coverings ✓

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 ✓ Is it fitted with a watertight door ✓ worked from ✓

**MAIN BOILERS, &c.**—(Letter for record "5") Total Heating Surface of Boilers 2415 sq. ft. ✓

Is Forced Draft fitted No. ✓ No. and Description of Boilers One single ended Working Pressure 22 lbs. ✓

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes ✓

IS A DONKEY BOILER FITTED? No. ✓ If so, is a report now forwarded? ✓

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

**PLANS.** Are approved plans forwarded herewith for Shafting ✓ Main Boilers ✓ Auxiliary Boilers ✓ Donkey Boilers ✓  
 (If not state date of approval)

Superheaters ✓ General Pumping Arrangements ✓ Oil fuel Burning Piping Arrangements ✓

**SPARE GEAR.**

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

State the principal additional spare gear supplied

- 1 main piston rod.
- 1 " feed pump plunger.
- 1 circulating pump impeller shaft.
- " " top & bottom end bolts (2)
- 1 set of air pump valves
- 1 main check valve & seat.
- 1 Aux " "
- 1 Set of Duplex & Simplex pump valves.

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

Manufacturer.



003106-003115-0272

NOTE.—The words which do not apply should be deleted.

Dates of Survey while building:
   
 During progress of work in shops - - 1936: - June 19. July 30. Aug. 4. 12. 13. 15. 28. Sept. 1. 2. 10. 14. 17. 23. 24. 26. 30.
   
 During erection on board vessel - - - Oct. 3. 7. 8. 9. 13. 14.
   
 Total No. of visits 22

Dates of Examination of principal parts—Cylinders 23-9-36 Slides 23-9-36 Covers 23-9-36
   
 Pistons 13-8-36 Piston Rods 23-9-36 Connecting rods 23-9-36
   
 Crank shaft 10-9-36 Thrust shaft 28-8-36 Intermediate shafts 1-9-36
   
 Tube shaft ✓ Screw shaft 15-8-36 Propeller 2-9-36
   
 Stern tube 12-8-36 Engine and boiler seatings 24-9-36 Engines holding down bolts 3-10-36
   
 Completion of fitting sea connections 2-9-36
   
 Completion of pumping arrangements 3-10-36 Boilers fixed 3-10-36 Engines tried under steam 14-10-36
   
 Main boiler safety valves adjusted 14-10-36 Thickness of adjusting washers F 3/8" A 3/8" Supn. 1/16"
   
 Crank shaft material *Steel* Identification Mark 1032 Thrust shaft material *Steel* Identification Mark 1032
   
 Intermediate shafts, material *Steel* Identification Marks 1032 Tube shaft, material ✓ Identification Mark ✓
   
 Screw shaft, material *Steel* Identification Mark 1032 Steam Pipes, material *Steel* Test pressure 660/lb Date of Test 8-10-36
   
 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 ✓
   
 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 *Yes* If so, state name of vessel *"Lape Chelyuskin"*

**General Remarks** (State quality of workmanship, opinions as to class, &c. *The machinery of this vessel has been built under special survey, the materials and workmanship being sound and good.*
  
*It has been satisfactorily fitted on board, tried under steam and found good.*
  
*It is eligible in my opinion, to have record # L.M.C. 10, 36 C.L.*

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 : - : When applied for,
   
 Special ... £ 33 : - : 20 OCT 1936 ✓
   
 Donkey Boiler Fee ... £ : : When received,
   
 Travelling Expenses (if any) £ : : 6. 11. 1936 *R.P.N.*

*G. Moffatt.*  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute **FRI. 23 OCT 1936**
  
 Assigned *+ L.M.C. 10.36*  
*Spt C.L.*

