

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

JAN 1931

Date of writing Report *5.1.31* When handed in at Local Office *5 Jan 31* Port of **HULL**

No. in Survey held at **HULL** Date, First Survey *4 August* Last Survey *29 Dec. 1930*

Req. Book. *61610* on the **STEAM TRAWLER "LORD BEAVERBROOK"** (Number of Visits *26*)

Gross Tons *362.10*
Net Tons *140.53*

Built at *Selly* By whom built *Bochrane & Son* Yard No. *1099* When built *1930*

Engines made at *Hull* By whom made *Amos & Smith Ltd.* Engine No. *621* When made *1930*

Boilers made at *Hull* By whom made *Amos & Smith Ltd.* Boiler No. *621* When made *1930*

Registered Horse Power _____ Owners *Pickering & Haldane's Steam Trawling* Port belonging to *Hull*

Nom. Horse Power as per Rule *96* 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* Revs. per minute _____

Dia. of Cylinders *13" x 22 3/4" x 37"* Length of Stroke *26"* No. of Cylinders *3* No. of Cranks *3*

Crank shaft, dia. of journals as per Rule *7.2"* as fitted *7 1/2"* Crank pin dia. *7 1/2"* Mid. length breadth *14 3/4"* Thickness parallel to axis *4 3/4"*

Intermediate Shafts, diameter as per Rule _____ as fitted _____ Thrust shaft, diameter at collars as per Rule *7.2"* as fitted *7 1/2"*

Tube Shafts, diameter as per Rule _____ as fitted _____ Screw Shaft, diameter as per Rule *7.7"* as fitted *8 1/2"* Is the tube screw 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 _____

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 _____

Propeller, dia. *10' 3"* Pitch *10' 7 1/2"* No. of Blades *4* Material *6.1* whether Moveable *No* Total Developed Surface *38* sq. feet

Feed Pumps worked from the Main Engines, No. *One* Diameter *2 1/8"* Stroke *13"* Can one be overhauled while the other is at work _____

Bilge Pumps worked from the Main Engines, No. *One* Diameter *2 1/8"* Stroke *13"* Can one be overhauled while the other is at work _____

Feed Pumps No. and size *One 6 1/4" x 4 1/4" x 6"* Pumps connected to the Main Bilge Line No. and size *One 6 1/4" x 4 1/4" x 6" & 3" ejector*

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"*

In Pump Room _____ In Holds, &c. *5 @ 2"*

Main Water Circulating Pump Direct Bilge Suctions, No. and size *One 3 1/2" Ejector* Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size _____

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* How are they protected *Wood 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 _____ Is it fitted with a watertight door _____

MAIN BOILERS, &c.—(Letter for record *S*) Total Heating Surface of Boilers *1698 sq. ft.*

Is Forced Draft fitted *No* No. and Description of Boilers *One single ended* Working Pressure *200 lb. sq. in.*

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 *Yes* Auxiliary Boilers _____ Donkey Boilers _____

(If not state date of approval)

Superheaters _____ General Pumping Arrangements *Yes* 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 Safety valve spring. valves for air & donkey pumps. feed pump ram and neck ring. bent pump shaft and impeller.*

The foregoing is a correct description,

For AMOS & SMITH LTD. Manufacturer. *Geo. F. Warden*

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

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During progress of work in shops - - 1930. Aug 7. Sept 11. 16. 22. 26. 27. Oct 6. 10. 15. 17. 18. 23. 24. 30. 31. Nov 11.
 Dates of Survey while building 17. 17. 18. 18. Dec 10. 17. 18. 20. 24. 29.
 During erection on board vessel - - -
 Total No. of visits 26

Dates of Examination of principal parts—Cylinders 31-10-30 Slides 31-10-30 Covers 31-10-30
 Pistons 31-10-30 Piston Rods 31-10-30 Connecting rods 31-10-30
 Crank shaft 15-9-30 Thrust shaft 23-10-30 Intermediate shafts 15-10-30
 Tube shaft - Screw shaft 10-10-30 Propeller 18-10-30
 Stern tube 26-9-30 Engine and boiler seatings 18-12-30 Engines holding down bolts 24-12-30
 Completion of fitting sea connections 12-11-30
 Completion of pumping arrangements 24-12-30 Boilers fixed 24-12-30 Engines tried under steam 29-12-30
 Main boiler safety valves adjusted 29-12-30 Thickness of adjusting washers P 1 1/2" S 1 1/2"
 Crank shaft material Steel Identification Mark *Floyds 564* Thrust shaft material Steel Identification Mark *Floyds 564*
 Intermediate shafts, material Steel Identification Marks *Floyds 564* Tube shaft, material - Identification Mark ✓
 Screw shaft, material Steel Identification Mark *Floyds 564* Steam Pipes, material *1.8.6 copper* Test pressure 400 lb Date of Test 20-12-30.
 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 "Beachflower"

General Remarks (State quality of workmanship, opinions as to class, &c. *The machinery of this vessel has been built under special survey. It has been satisfactorily fitted on board, tried under full working conditions and found in good order.*

It is eligible, in my opinion, to have record of L.M.C. 12.30.

The forging reports were forwarded with report on sister vessel "Beachflower"

The amount of Entry Fee ... £ 2 : 0 :
 Special ... £ 24 : 0 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When applied for, 6 Jan 1931
 When received, 8.1.1931

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

Committee's Minute
 Assigned
 TUE. 13 JAN 1931
+ L.M.C. 12.30 G.L.



The Surveymen are requested not to write on or below the space for Committee's Minute.

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