

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 19 NOV 1929

Date of writing Report 16-11-1929 When handed in at Local Office 18-11-1929 Port of Aberdeen

No. in Survey held at Aberdeen Date, First Survey 20-12-1928. Last Survey 12-11-1929
 Reg. Book. on the stad. Sc. Suction Hopper & reclamation Dredger "FOREMOST CHIEF" (Number of Visits 36.) Tons } Gross 1031.49
 Net 363.74

Built at Aberdeen By whom built A. Hall & Co. Ltd. Yard No. 614. When built 1929

Engines made at Aberdeen By whom made A. Hall & Co. Ltd. Engine No. 315. when made 1929.

Boilers made at Hebburn By whom made Palmer's S & I. Co. Boiler No. 1118-9. when made 1929.

Registered Horse Power Owners James Dredging, Towing & Transport Co. Ltd. Port belonging to London.

Nom. Horse Power as per Rule 192. Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

Trade for which Vessel is intended Dredging.

ENGINES, &c.—Description of Engines Triple expansion Revs. per minute

Dia. of Cylinders 16" 25" 42" Length of Stroke 24" No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 7.87" as fitted 8" Crank pin dia. 8" Crank webs Mid. length breadth 17" Thickness parallel to axis 5"
 Mid. length thickness 5" shrunk Thickness around eye-hole 3 5/8"

Intermediate Shafts, diameter as per Rule 7.5" as fitted 7 1/2" Thrust shaft, diameter at collars as per Rule 7.87" as fitted 8"

Tube Shafts, diameter as per Rule - as fitted - Screw Shaft, diameter as per Rule 8.64" as fitted 9" Is the tube shaft fitted with a continuous liner } no liner
 Is the screw shaft fitted with a continuous liner }

Bronze Liners, thickness in way of bushes as per Rule - as fitted - Thickness between bushes as per Rule - as fitted - 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 yes Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft yes If so, state type Cederval Length of Bearing in Stern Bush next to and supporting propeller 37 1/2"

Propeller, dia. 9'-6" Pitch 12'-0" No. of Blades 4 Material C.I. whether Movable no Total Developed Surface 39.5 sq. feet

Feed Pumps worked from the Main Engines, No. ✓ Diameter - Stroke - Can one be overhauled while the other is at work ✓

Bilge Pumps worked from the Main Engines, No. ✓ Diameter - Stroke - Can one be overhauled while the other is at work ✓

Feed Pumps { No. and size Two 6" x 4 1/4" x 6" Pumps connected to the { No. and size Two 6" x 4 1/4" x 6"
 How driven Steam Main Bilge Line { How driven Steam

Ballast Pumps, No. and size Two 6" x 4 1/4" x 6" 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 Two 2 1/2" in engine room, One 2 1/2" in boiler room.

In Holds, &c. Forehold 2" Port well side, two 2" Starboard well side, two 2"

MAIN WATER CIRCULATING PUMP DIRECT BILGE SUCTIONS, No. and size One 6" **Independent Power Pump Direct Suctions to the Engine Room Bilges,**
 No. and size One 3" 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 stagnant boxes

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 none How are they protected -

What pipes pass through the deep tanks Forehold & well side suction 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 - Is it fitted with a watertight door - worked from -

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 4250 sq. ft.

Is Forced Draft fitted no No. and Description of Boilers 2 S.E. Main Working Pressure 190 lbs.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes. Newcastle Rpt No. 84583.

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

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

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

SPARE GEAR. State the articles supplied:— Two top end bolts & nuts. 2 bottom end bolts & nuts; 2 main bearing bolts; 1 set of Coupling bolts; 1 set of feed & bilge pump valves; a quantity of assorted bolts & nuts & iron of various sizes. One main & one donkey feed check valve.

The foregoing is a correct description,

ALEXANDER HALL & CO., LTD.

A. H. M. J.
SECRETARY

Manufacturer.



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Lloyd's Register Foundation

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

Date of writing

No. in Reg. Book.

Master

Engines made

Boilers made

Nominal Horsepower

MULTIT

Manufacture

Total Heating

No. and Des

Tested by

Area of Fire

Area of each

In case of de

Smallest dis

Smallest dis

Largest inte

Thickness

long. seams

Percentage

Percentage

Thickness of

Material

Length of p

Dimensions

End plates

How are sta

Tube plates

Mean pitch

Girders to

at centre

in each 2

Tensile stre

Pitch of sta

Working p

Thickness

Pitch of sta

Working P

Diameter (A

Working p

Diameter (A

Working p

Diameter (A

Working p

Diameter (A

Working p

1928. 1929.
 During progress of work in shops -- Dec. 20. Jan 7. 19. 31. Feb. 7. 14. 22. Mar. 4. 13. 22. 25. Apr. 3. 16. 26. May. 21. 29. 31. June 18. 25.
 July 4. 8. 24. 29. Aug 2.
 During erection on board vessel --- July 8. Aug. 16. 21. 27. Oct. 1. 2. 4. 9. 15. 26. 29. Nov. 12.
 Total No. of visits 36

Dates of Examination of principal parts—Cylinders 25-6-29 Slides 25-6-29 Covers 25-6-29
 Pistons 25-6-29 Piston Rods 26-4-29 Connecting rods 4-7-29.
 Crank shaft 31-5-29 Thrust shaft 31-5-29 Intermediate shafts 8-7-29.
 Tube shaft ✓ Screw shaft 8-7-29 Propeller 8-7-29.
 Stern tube 4-7-29. Engine and boiler seatings 8-7-29. Engines holding down bolts 21-8-29
 Completion of fitting sea connections 8-7-29.
 Completion of pumping arrangements 12-11-29. Boilers fixed 21-8-29. Engines tried under steam 29-10-29.
 Main boiler safety valves adjusted 29-10-29. Thickness of adjusting washers P.P. $\frac{17}{32}$ S $\frac{17}{32}$; S.P. $\frac{17}{32}$ S $\frac{17}{32}$ F.
 Crank shaft material steel Identification Mark 315 P.F. Thrust shaft material steel. Identification Mark 227 P.F.
 Intermediate shafts, material steel. Identification Marks 229 H.Y.B. Tube shaft, material ✓ Identification Mark ✓
 Screw shaft, material steel Identification Mark 229 H.Y.B. Steam Pipes, material S.D. Copper Test pressure 390 lb. Date of Test 15-10-29.
 Is an installation fitted for burning oil fuel yes Is the flash point of the oil to be used over 150°F. yes
 Have the requirements of the Rules for the use of oil as fuel been complied with yes
 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 ✓
 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 constructed under special survey in accordance with the approved plans & the Rules of this Society. The materials & workmanship are good. The machinery has been efficiently installed on board the vessel, tried under working conditions, & found good.

The machinery is eligible in my opinion to have the record + Lme 11.29. O.G. in the Register Book.

Fitted for oil fuel 11.29; F.P. above 150°F.

It is submitted that this vessel is eligible for THE RECORD. + Lme 11.29. O.G.

Fitted for oil fuel 11.29 F.P. above 150°F

P.F.
20/11/29

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 : 0 : 0 When applied for.
 Special $\frac{2}{3}$ of Lme fee. £ 28 : 16 : 18-11-1929
 Donkey Boiler Fee ... £ : : :
 Travelling Expenses (if any) £ : : : 14-2-30

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

Committee's Minute

FRI. 22 NOV 1929

Assigned

+ Lme 11.29 O.G.
 Fitted for Oil Fuel 11.29 F.P. above 150°F

