

## 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 steel 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, Tonnage & 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" Crank pin dia. 8" Crank webs Mid. length breadth 17" Thickness parallel to axis 5"  
as fitted 8" Mid. length thickness 5" shrunk Thickness around eye-hole 3 5/8"

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

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

Bronze Liners, thickness in way of bushes as per Rule Thickness between bushes as per Rule Is the after end of the liner made watertight in the  
as fitted as fitted propeller boss ✓ 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 yes If so, state type Cedernel. 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 Moveable 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. sq.

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 &amp; CO., LTD.

SECRETARY

Manufacturer.



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Foundation

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+ LWR @ 11:29 09  
Fitted for Oil Fuel 11:29 F. Pressure 150°