

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office 30 OCT 1936

of writing Report 10 When handed in at Local Office 19-10-1936. Port of Aberdeen.  
 in Survey held at Aberdeen. Date, First Survey 14th Janv., 1936 Last Survey 14th October 1936  
 Book. on the Stationary Bucket Dredger (Not named) (Number of Visits 24)  
 at Schiedrecht By whom built Werf der Klop. Yard No. 520 Tons } Gross  
 PROPELLER }  
 made at Aberdeen. By whom made A. Hall & Co. Ltd Engine No. 364 When built 1936 Net  
 made at Glasgow By whom made D. Rowan & Co. Ltd Boiler No. 420 When made 1936  
 Registered Horse Power 100 for R.R. Owners James Dredging Co. Port belonging to  
 Horse Power as per Rule 99. Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes  
 for which Vessel is intended Dredging.

**GINES, &c.—Description of Engines** Triple expansion. Revs. per minute 140  
 No. of Cylinders 3 Length of Stroke 24" No. of Cranks 3  
 Crank shaft, dia. of journals as per Rule 6.636 Crank pin dia. 6 7/8" Mid. length breadth 13" Thickness parallel to axis 4 1/4"  
 as fitted 6 7/8" Crank webs Mid. length thickness 4 1/4" shrunk Thickness around eye-hole 3 3/4"  
 Intermediate Shafts, diameter as per Rule } NONE Thrust shaft, diameter at collars as per Rule } NONE  
 as fitted } Screw Shaft, diameter as per Rule } NONE Is the (tube } shaft fitted with a continuous liner }   
 as fitted } (screw }  
 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  If the liner is in more than one length are the junctions made by fusion through the whole thickness of the liner   
 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   
 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  
 If so, state type  Length of Bearing in Stern Bush next to and supporting propeller   
 Propeller, dia.  Pitch  No. of Blades  Material  whether Moveable  Total Developed Surface  sq. feet  
 Main Engines, No.  Diameter  Stroke  Can one be overhauled while the other is at work   
 Auxiliary Engines, No.  Diameter  Stroke  Can one be overhauled while the other is at work   
 No. and size Two 7" x 5" x 12 Pumps connected to the Main Bilge Line { No. and size ONE DUPLEX 6" x 6" x 6"  
 How driven STEAM. How driven STEAM.  
 Main Bilge Line {  
 Last Pumps, No. and size ONE 6" x 6" x 6" DUPLEX Lubricating Oil Pumps, including Spare Pump, No. and size   
 two 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 Two - 2 1/2" In Holds, &c.  ONE 2" IN AFT PEAK, TWO 2" IN FORE PEAK  
 Pump Room  ONE 2 1/2" IN STARBOARD WELL SIDE  ONE 2 1/2" IN PORT WELL SIDE.  
 Water Circulating Pump Direct Bilge Suctions, No. and size 2 - 4" Independent Power Pump Direct Suctions to the <sup>BOILER</sup> Engine Room Bilges,  
 and size ONE 2" Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-bones   
 the Bilge Suctions in the Machinery Space led from easily accessible mud-bores, placed above the level of the working floor, with straight tail pipes to the bilges  ROSE BOXES  
 all Sea Connections fitted direct on the skin of the ship  yes. Are they fitted with Valves or Cocks  BOTH  
 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  
 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  
 Pipes pass through the bunkers None. How are they protected   
 pipes pass through the deep tanks  Have they been tested as per Rule   
 all 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  Is it fitted with a watertight door  worked from

**MAIN BOILERS, &c.—** (Letter for record S.) Total Heating Surface of Boilers 1900 Square feet.  
 Forced Draft fitted No No. and Description of Boilers One single ended Working Pressure 190 lbs  
**A REPORT ON MAIN BOILERS NOW FORWARDED?** None.  
**A DONKEY BOILER FITTED?** Yes. If so, is a report now forwarded? yes. R.P.N. 57064.  
 donkey boiler intended to be used for domestic purposes only No  
**ANS.** Are approved plans forwarded herewith for Shafting Main Boilers  Auxiliary Boilers  Donkey Boilers  yes.  
 heaters  General Pumping Arrangements  yes Oil fuel Burning Piping Arrangements  yes.

### SPARE GEAR.

The spare gear required by the Rules been supplied   
 the principal additional spare gear supplied

The foregoing is a correct description,

Manufacturer.



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91205227

1936  
 During progress of work in shops - - -  
 Dates of Survey while building  
 During erection on board vessel - - -  
 Total No. of visits 24

1936  
 Jan. 14, 28. Feb. 4, 14. Mar. 6, 26. Apr. 6, 16, 21, 23. May 11, 20, 29.  
 June 5, 10, 15, 30. Aug. 18, 19. Sept. 8, 11. Oct. 5, 18, 25.  
 1936  
 Sept. 8. Oct. 13, 26.

Dates of Examination of principal parts—Cylinders 11-5-36 Slides 11-5-36 Covers 11-5-36.  
 Pistons 11-5-36. Piston Rods 20-5-36. Connecting rods 16-4-36.  
 Crank shaft 23-4-36. Thrust shaft ✓ Intermediate shafts ✓  
 Tube shaft ✓ Screw shaft ✓ Propeller ✓  
 Stern tube ✓ Engine and boiler seatings ✓ Engines holding down bolts 13-10-36  
 Completion of fitting sea connections ✓  
 Completion of pumping arrangements 13-10-36. Boilers fixed 13-10-36. Engines tried under steam 14-10-36.  
 Main boiler safety valves adjusted Yes ✓ Thickness of adjusting washers P 3/8 S 3/8  
 Crank shaft material O. H. I. S Identification Mark Z434 Thrust shaft material ✓ Identification Mark ✓  
 Intermediate shafts, material ✓ Identification Marks ✓ Tube shaft, material ✓ Identification Mark ✓  
 Screw shaft, material ✓ Identification Mark ✓ Steam Pipes, material S. D. COPPER Test pressure 380 LBS Date of Test 11-9-36.  
 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 ✓  
 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 "FOREMOST IV"

**General Remarks** (State quality of workmanship, opinions as to class, &c. This engine has been securely fitted on board the vessel, and tried under power with satisfactory results. The materials and workmanship are good.

Pumping arrangements tried & found satisfactory.

NOTE: This engine is used solely for driving the bucket dredging ladder. The vessel is non-propelling.

See also Rotterdam Rpt N: 24752. attached.

The vessel is being towed to Southampton where the dredging ladder and buckets will be fitted.

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 ... £ ✓ : : When applied for,  
 Special ... 3/5 THS ... £ 14 : 14 : 29.10.1936  
 Donkey Boiler Fee ... £ ✓ : : When received,  
 Travelling Expenses (if any) £ ✓ : : 9/11/1936.

J. Dawey  
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute FRI 22 OCT 1937

Assigned *Deperred*

