

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

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Date of writing Report 8th June 1931 When handed in at Local Office 23.6.1931 Port of Harlepool
 No. in Survey held at Harlepool Date, First Survey 23rd Sept. 1930 Last Survey 22 June 1931
 Reg. Book. 35507 on the Twin Screw S. "SYEND FOYN" (Number of Visits 12th) Gross 145 TT.
 Built at Middlesbrough By whom built Furness S.B.Co. Ltd. Yard No. 190. Tons Net 8008.
 Engines made at Harlepool By whom made Richardsons Westgarth Engine No. 2678 when made 1931
 Boilers made at ditto By whom made 4 Co Ltd Boiler No. 2678 when made 1931
 Registered Horse Power Owners HVALFANGERAKTIESELSKAPET SYDHAVET Tønging to Sandefjord
 Nom. Horse Power as per Rule 997 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Ys
 Trade for which Vessel is intended Whaling, ocean going.

ENGINES, &c.—Description of Engines Twin screw, quadruple expansion Revs. per minute 96
 Dia. of Cylinders 20½-29½-42½-62 Length of Stroke 45" No. of Cylinders 8 No. of Cranks 8
 Crank shaft, dia. of journals as per Rule 13.04" Crank pin dia. 13½" Crank webs Mid. length breadth 19½" Thickness parallel to axis 8½"
 as fitted 13½" Mid. length thickness 8½" Thickness around eye-hole 5½"
 Intermediate Shafts, diameter as per Rule 12.42" Thrust shaft, diameter at collars as per Rule 13.04"
 as fitted 13½" at ends 17" main part 16" Is the tube screw shaft fitted with a continuous liner? yes
 Tube Shafts, diameter as per Rule 14.4" Screw Shaft, diameter as per Rule 14.4" Is the tube screw shaft fitted with a continuous liner? yes
 as fitted 14½" as fitted 14½"
 Bronze Liners, thickness in way of bushes as per Rule 7.16" Thickness between bushes as per Rule 5.38"
 as fitted 7¼" as fitted 9" 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? no If so, state type Length of Bearing in Stern Bush next to and supporting propeller 59½"
 Propeller, dia. 15-6" Pitch 14-0" No. of Blades 4 Material Cast Steel whether Moveable no Total Developed Surface 85 sq. feet
 Feed Pumps worked from the Main Engines, No. 1 Diameter 10½" Stroke 12" Can one be overhauled while the other is at work? yes
 Bilge Pumps worked from the Main Engines, No. 1 Diameter 10½" Stroke 12" Can one be overhauled while the other is at work? yes
 Feed Pumps No. and size 2 Main 15½-11½x24" Pumps connected to the Main Bilge Line (No. and size 1 Bilge 10½-12x18" 1 Ball 13½-16x26"
 How driven Steam How driven Steam
 Ballast Pumps No. and size 1 13½-16x26" Lubricating Oil Pumps, including Spare Pumps, No. and size 1
 Are two independent means arranged for circulating water through the Oil Cooler? yes Suctions, connected to both Main Bilge Pumps and Auxiliary Bilge Pumps;—In Engine and Boiler Room 3 of 3½" dia.
 In Holds, &c. 2.22" or W.T. Flat over fore deep tanks

Main Water Circulating Pump Direct Bilge Suctions, No. and size 2 of 8" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 of 6" dia.
 Are all the Bilge Suction Pipes in holds and tunnel well fitted with strum-boxes? Yes with perforated covers.
 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? None How are they protected? Yes
 What pipes pass through the deep tanks? None 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? None Is it fitted with a watertight door? Yes worked from? Yes

MAIN BOILERS, &c.—(Letter for record 5) Total Heating Surface of Boilers 14,800 sq. ft.
 Is Forced Draft fitted? Yes No. and Description of Boilers 5 single ended Working Pressure 265 lbs
 IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes
 IS A DONKEY BOILER FITTED? no If so, is a report now forwarded? Yes

PLANS. Are approved plans forwarded herewith for Shafting? Yes Main Boilers Yes x Auxiliary Boilers Yes Donkey Boilers Yes
 (If not state date of approval)
 Superheaters Yes x General Pumping Arrangements Yes x Oil fuel Burning Piping Arrangements Yes x

SPARE GEAR. State the articles supplied:—2 Bolts & nuts for con. rod top ends. 2 ditto bottom ends.
 2 ditto main bearings 1 set coupling bolts & nuts. 1 set piston springs. 1 piston rod.
 1 slide rod. 1 eccentric strap. 1 pair crank pin bearings. 1 propeller shaft.
 2 propellers. 1 set valves and seats for feed, bilge, ballast, sanitary and fresh water pumps.
 1 steam chest for feed pumps. 59 condenser tubes. For Centrifugal Circulating pump:—1 impeller & shaft. 1 top end & 1 bottom end bearing.
 1 set piston rings. 15 boiler tubes. 2 safety valve springs. 2 connec. rod top end bearings. 1 set air pump valves. 6 piston bolts & nuts.
 Various spare parts for oil burning units and fan engine. Bolts, nuts, and iron assorted.

The foregoing is a correct description,
 For RICHARDSONS, WESTGARTH & CO. LIMITED.

Harry Danks

Manufacturer.

DIRECTOR & SECRETARY



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