

Rpt. 4.

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

No. 18862

Date of writing Report 4-9-1947 When handed in at Local Office 4-9-1947 Port of WEST HARTLEPOOL
No. in Survey held at WEST HARTLEPOOL Date, First Survey 12th July, 1946 Last Survey 28th August, 1947
Reg. Book WEST HARTLEPOOL (Number of Visits 28)
on the STEAM TRAWLER 'ARCTIC VIKING' ex 'ARCTIC PIONEER'
Built at - By whom built - Tons { Gross 533
Engines made at HULL By whom made AMPS & SMITH Lth Yard No. - Net 204
Boilers made at - By whom made - Engine No. 793 When built -
Registered Horse Power - Owners BOYD LINE LTD Boiler No. - When made -
M.N. - Port belonging to HULL
Nom. Horse Power as per Rule 171 Is Refrigerating Machinery fitted for cargo purposes - Is Electric Light fitted YES
Trade for which vessel is intended TRAWLER, OCEAN GOING.

ENGINES, &c.—Description of Engines TRIPLE EXPANSION - STEAM RECIPROCATING.
Dia. of Cylinders 14 1/2" 24" 40" Length of Stroke 27" No. of Cylinders 3 Revs. per minute -
Crank shaft, dia. of journals as per Rule Crank pin dia. 8 1/4" Crank webs Mid. length breadth 1-3/4" Thickness parallel to axis 5 1/4"
as fitted 8 1/4" Mid. length thickness 5 1/4" shrunk Thickness around eye-hole 3 7/8"
Intermediate Shafts, diameter as per Rule Thrust shaft, diameter at collars as per Rule
as fitted - as fitted -
Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule
as fitted - as fitted - Is the { tube } shaft fitted with a continuous liner { - }
as fitted - Thickness between bushes as per Rule
Bronze Liners, thickness in way of bushes as fitted - Is the after end of the liner made watertight in the
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
at - 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
Feed Pumps worked from the Main Engines, No. TWO Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work YES
Bilge Pumps worked from the Main Engines, No. TWO Diameter 2 1/2" Stroke 15" Can one be overhauled while the other is at work YES
Feed { No. and size 2 at 2 1/2" x 15" 1 at 7 1/2" x 5" x 6" Pumps connected to the { No. and size 2 at 2 1/2" x 15" 1 at 7 1/2" x 5" x 6" and 1 gutter
Pumps { How driven LEVERS. Indep. diam Main Bilge Line { How driven LEVERS. Indep. diam
Ballast Pumps, No. and size 1 at 7 1/2" x 5" 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 1 at 2" and 1 at 3" In Pump Room -
In Holds, &c. 5 at 2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 5" Independent Power Pump Direct Suctions to the Engine Room Bilges,
No. and size 1- 3" gutter 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 none. How are they protected -
What pipes pass through the deep tanks none 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 - worked from -

MAIN BOILERS, &c.—(Letter for record -) Total Heating Surface of Boilers 2415 + 1092 = 3507 sq. feet.
Which Boilers are fitted with Forced Draft none Which Boilers are fitted with Superheaters 1 S.B.
No. and Description of Boilers original boiler Working Pressure 220 lbs per sq. in.
IS A REPORT ON MAIN BOILERS NOW FORWARDED? Repair only.
IS A DONKEY BOILER FITTED? - If so, is a report now forwarded? -
Can the donkey boiler be used for domestic purposes only -

PLANS. Are approved plans forwarded herewith for Shafting original shafting Main Boilers original boiler Auxiliary Boilers - Donkey Boilers -
(If not state date of approval)
Superheaters - General Pumping Arrangements yes. 3-10-46. Oil fuel Burning Piping Arrangements yes. 18-1-47.
SPARE GEAR.
Has the spare gear required by the Rules been supplied yes.
State the principal additional spare gear supplied -

The foregoing is a correct description.

Manufacturer.

Lloyd's Register
Foundation