

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

14 FEB 1934

Received at London Office

17 FEB 1934

Date of writing Report 15-2-1934 When handed in at Local Office Hull Port of Hull

No. in Survey held at Hull Date, First Survey 27. 11. 33. Last Survey 14. 2. 1934

Reg. Book. "KINGSTON ANDALUSITE" (Number of Visits 2/15) Tons { Gross 367415 Net 168

on the Steel Se. Ketch

Built at Beverley By whom built Cook, Melton, & Gemmill Ltd. Yard No. 584 When built 2-34.

Engines made at Hull By whom made C.D. Holmes & Co. Engine No. 1450 When made 1934.

Boilers made at ditto By whom made ditto. Boiler No. 1450 When made 1934.

Registered Horse Power ✓ Owners Kingston Steam Trawling Co. Port belonging to Hull.

Nom. Horse Power as per Rule 111. Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yes.

Trade for which Vessel is intended Fishing.

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

Dia. of Cylinders 13 1/2 + 24 + 39 Length of Stroke 27 No. of Cylinders 3 No. of Cranks 3

Crank shaft, dia. of journals as per Rule 7.66 Crank pin dia. 7 3/4 Crank webs Mid. length breadth ✓ Thickness parallel to axis 5"

as fitted 7.34 Mid. length thickness ✓ shrunk Thickness around eye-hole 3 1/2"

Intermediate Shafts, diameter as per Rule 7.29 Thrust shaft, diameter at collars as per Rule 7.66

as fitted 7 1/2 as fitted 7 3/4

Tube Shafts, diameter as per Rule ✓ Screw Shaft, diameter as per Rule 8.145 Is the { tube } shaft fitted with a continuous liner { Yes

as fitted ✓ as fitted 8 3/8 { screw }

Bronze Liners, thickness in way of bushes as per Rule 174/32 Thickness between bushes as per Rule 13/32 Is the after end of the liner made watertight in the

as fitted 18/32 as fitted 15/32 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 ✓

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 No If so, state type ✓ Length of Bearing in Stern Bush next to and supporting propeller 36"

Propeller, dia. 10'-3" Pitch 10-10 1/2 No. of Blades 4 Material C.I. whether Movable No. Total Developed Surface 38 sq. feet

Feed Pumps worked from the Main Engines, No. One Diameter 3" Stroke 15" Can one be overhauled while the other is at work ✓

Bilge Pumps worked from the Main Engines, No. One Diameter 3" Stroke 15" Can one be overhauled while the other is at work ✓

Feed Pumps { No. and size 7+5x6 Pumps connected to the { No. and size 7+5x6

{ How driven Steam Main Bilge Line { How driven Steam

Ballast Pumps, No. and size ✓ 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 2 @ 2" In Pump Room ✓ In Holds, &c. 5 @ 2"

Main Water Circulating Pump Direct Bilge Suctions, No. and size One 3 3/4" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size One 3" Steam Ejector 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 lead 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 Yes

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 Forward Suctions How are they protected Wood casings

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 ✓ worked from ✓

MAIN BOILERS, &c.—(Letter for record S) Total Heating Surface of Boilers 1940 sq. ft. ✓

Is Forced Draft fitted No No. and Description of Boilers One Single ended Working Pressure 210 lbs/sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? ✓

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

Is the donkey boiler intended to be used for domestic purposes only ✓

PLANS. Are approved plans forwarded herewith for Shafting ✓ Main Boilers ✓ Auxiliary Boilers ✓ Donkey Boilers ✓

(If not state date of approval)

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

SPARE GEAR.

Has the spare gear required by the Rules been supplied Yes

State the principal additional spare gear supplied.

1 Set of air pump valves. Main & donkey check valves & seats.

Donkey pump valves. Impeller & shaft for centrifugal pump.

Feed pump ram.

The foregoing is a correct description,
FOR CHARLES D. HOLMES & CO., LTD.

[Signature]

Manufacturer.



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Lloyd's Register

Foundation

00279-00288 FOR

1933. Nov. 27. Dec. 15. 22. 28.
 During progress of work in shops - - 1934 JAN. 5. 8. 15. 17. 18. 23. Feb. 1.
 Dates of Survey while building During erection on board vessel - - - 1934 Feb. 5. 7. 10. 14
 Total No. of visits 15.

Dates of Examination of principal parts—Cylinders 28-12-33 Slides 28-12-33 Covers 28-12-33
 Pistons 28-12-33 Piston Rods 28-12-33 Connecting rods 28-12-33
 Crank shaft 5-1-34 Thrust shaft 22-12-33 Intermediate shafts 22-12-33
 Tube shaft None Screw shaft 5-1-34 Propeller 5-1-34
 Stern tube 5-1-34 Engine and boiler seatings 5-2-34 Engines holding down bolts 7-2-34
 Completion of fitting sea connections 15-1-34
 Completion of pumping arrangements 10-2-34 Boilers fixed 5-2-34 Engines tried under steam 10-2-34
 Main boiler safety valves adjusted 10-2-34 Thickness of adjusting washers 3/8" full. - both -
 Crank shaft material Steel Identification Mark 848 Thrust shaft material Steel Identification Mark 848
 Intermediate shafts, material Steel Identification Marks 848 Tube shaft, material None Identification Mark ✓
 Screw shaft, material Steel Identification Mark 848 Steam Pipes, material Copper Test pressure 420 lbs Date of Test 7-2-34
 Is an installation fitted for burning oil fuel No Is the flash point of the oil to be used over 150°F. ✓
 Have the requirements of the Rules for the use of oil as fuel been complied with ✓
 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 No or desired
 Is this machinery duplicate of a previous case Yes. If so, state name of vessel Kingston Alalite.

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. The workmanship & materials are good, & the machinery when tried under working conditions was found satisfactory in every respect.

The machinery of this vessel is eligible, in our opinion, to be classed with records of L.M.C. 2-34 & C.L. & the notations 111. N.H.P.; 210 lbs; 3 pf.; G.S. 54; H.S. 1940. - T. 3 cy. 13 1/2, 24 & 39-27.

The amount of Entry Fee ... £ 3 : 0 :
 Special ... £ 27 : 15 :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :

When applied for, 16 FEB 1934
 When received, 1.3.1934

D. J. Collins & J. A. Mackintosh
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUE. 20. FEB 1934

Assigned + dmb. 2.34

The Surveyors are requested not to write on or below the space for Committee's Minute.

CERTIFICATE WRITTEN