

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report _____ 19 _____ When handed in at Local Office 15 JULY 1938 Port of SUNDERLAND.

No. in Survey held at Sunderland Date, First Survey 22nd Feb. Last Survey 5th July 1938
 Reg. Book. _____ (Number of Visits 31)

on the AGIOS GEORGIOS IV Tons { Gross 4847
 Net 2916

Built at Sunderland By whom built Bartram & Sons, Ltd Yard No. 279 When built 1938
 Engines made at Warrick & Tyne By whom made R. W. Hawthorn Leslie & Co. Ltd. Engine No. 1407 When made 1938
 Boilers made at Glasgow By whom made Barclay Curle & Co. Ltd. Boiler No. 37/11 When made 1938

Registered Horse Power _____ Owners George Nicol & Co. Ltd (Ingrs) Port belonging to Piraeus

Nom. Horse Power as per Rule 365 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes

Trade for which Vessel is intended Ocean

ENGINES, &c.—Description of Engines See New Rpt. 96204. Revs. per minute 63

Dia. of Cylinders _____ Length of Stroke _____ No. of Cylinders _____ No. of Cranks _____

Crank shaft, dia. of journals _____ Crank pin dia. _____ Crank webs _____ Mid. length breadth _____ Thickness parallel to axis _____
 as per Rule _____ as fitted _____ as per Rule _____ as fitted _____

Intermediate Shafts, diameter _____ Thrust shaft, diameter at collars _____
 as per Rule _____ as fitted _____ as per Rule 12.25" as fitted 13 1/4"

Tube Shafts, diameter _____ Screw Shaft, diameter _____ Is the { tube } shaft fitted with a continuous liner { _____ }
 as per Rule _____ as fitted _____ as per Rule 13 5/8" as fitted _____

Bronze Liners, thickness in way of bushes _____ Is the after end of the liner made watertight in the _____
 as per Rule _____ as fitted See Middle Rpt. 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 _____
 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 4-6 1/2"

Propeller, dia. 17-10 1/2" Pitch 17-17' No. of Blades 4 Material C.I. whether Moveable fixed Total Developed Surface 117 sq. feet

Red 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 _____

Speed Pumps { No. and size 1-6x8 1/2x18 1/2 - 2 1/2 bore Pumps connected to the { No. and size 1, 4 3/4" dia by 12", 1, 6x6x6"
 How driven Steam & Turbine shaft Main Bilge Line { How driven Main Engines & Steam

Fast Pumps, No. and size 1, 10x12x12 Lubricating Oil Pumps, including Spare Pump, No. and size 2- 6x5 1/2x15"

Two independent means arranged for circulating water through the Oil Cooler yes Suctions, connected to both Main Bilge Pumps and Auxiliary _____

Engine Pumps;—In Engine and Boiler Room 3 & 3" dia, 1 & 2" dia (Thrust pump), 2" dia (oil pump)

Pump Room _____ In Holds, &c. 3" dia. one port & one starboard in Nos 2, 5 & 6 Holds, 3" dia. one port & one starboard in No 4. Tunnel well 1 & 2 1/2" dia.

In Water Circulating Pump Direct Bilge Suctions, No. and size 1 & 2 1/2" dia Independent Power Pump Direct Suctions to the Engine Room Bilges, _____
 and size 1 & 4 3/4" dia 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

All Sea Connections fitted direct on the skin of the ship yes Are they fitted with Valves or Cocks yes

Are they fitted 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 both

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

Pipes pass through the bunkers See hold suction How are they protected 3" timbers

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 yes Is it fitted with a watertight door yes worked from above

MAIN BOILERS, &c.—(Letter for record _____) Total Heating Surface of Boilers _____

Forced Draft fitted _____ No. and Description of Boilers _____ Working Pressure _____

IS A REPORT ON MAIN BOILERS NOW FORWARDED? See Glasgow Rpt. 59656.

IS A DONKEY BOILER FITTED? _____ If so, is a report now forwarded? _____

Is a donkey boiler intended to be used for domestic purposes only _____

APPROVED PLANS. Are approved plans forwarded herewith for Shafting _____ Main Boilers _____ Auxiliary Boilers _____ Donkey Boilers _____
 (If not state date of approval)

Heaters _____ General Pumping Arrangements yes Oil fuel Burning Piping Arrangements yes

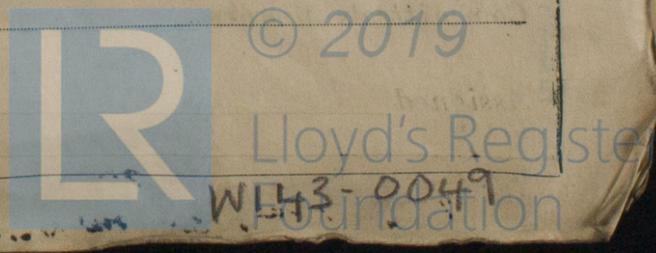
SPARE GEAR.

Is the spare gear required by the Rules been supplied See New Rpt.

Is the principal additional spare gear supplied _____

The foregoing is a correct description,
 For White's Marine Engineering Co. Ltd.

Manufacturer.



21.23
 28.31
 45.8
 82

Dates of Survey while building
 During progress of work in shops -- 1938 Feb. 22, 23, 24, 25, 26, 27, 30, 31, Apr. 14, 25, 26, May 2, 6, 10, 20, 24, 25, 26, 27, 30, 31, June 2, 7, 14, 15, 17, 20, 21, 23, 24, 27, July 1, 5
 During erection on board vessel ---
 Total No. of visits 31

Dates of Examination of principal parts—Cylinders ✓ Slides ✓ Covers ✓
 Pistons ✓ Piston Rods ✓ Connecting rods ✓
 Crank shaft ✓ Thrust shaft 14/6/38 Intermediate shafts 14/6/38
 Tube shaft ✓ Screw shaft 6/5/38 Propeller 6/5/38
 Stern tube 18/3/38 Engine and boiler seatings 15/3/38 Engines holding down bolts 15/6/38
 Completion of fitting sea connections 31/3/38
 Completion of pumping arrangements 27/6/38 Boilers fixed 15/6/38 Engines tried under steam 21.6.38
 Main boiler safety valves adjusted 21/6/38 Thickness of adjusting washers Post 3/8" dia 2 1/2" dia 1 1/2" Super H. 11/32" Super H. 11/32" Super H.
 Crank shaft material ✓ Identification Mark 34563458 Thrust shaft material ✓ Identification Mark 3450
 Intermediate shafts, material Steel Identification Mark 34563458 Tube shaft, material ✓ Identification Mark 3450
 Screw shaft, material Steel Identification Mark 3482 Steam Pipes, material Steel Test pressure 720 lb. Date of Test 14/4/38
 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 Not required.
 Is this machinery duplicate of a previous case No If so, state name of vessel.

General Remarks (State quality of workmanship, opinions as to class, &c.)

The machinery of this vessel mentioned in Newcastle Report No. 96204, London Report No. 105778 and Glasgow Report No. 59656 has been efficiently fitted on board in accordance with the approved plans, Secretary's letters and the requirements of the Rules. Materials & workmanship are good.

The machinery has been tried under working conditions with satisfactory results and is eligible, in my opinion, for

NOTATION + L.M.C. 7.38.

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

The amount of Entry Fee ... £ 15 : 19 +
 Special ... £ : :
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 See how 96204 letter
 When applied for, at 7.38.19
 When received, 14.7.1938 from

L. R. Howe
 Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute

Assigned + L.M.C. 7.38
 Fitted for oil fuel 7.38
 2 SB (SNC) 20 2.0 above 1000
 1 aux 873

