

REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

No. 31245

Date of writing Report 19 When handed in at Local Office 11 JULY 1933 Port of Sunderland Received at London Office 12 JUL 1933

No. in Survey held at Sunderland Date, First Survey 14 Feb. Last Survey 3 July 1933
Reg. Book on the Steamship "PARKWOOD" (Number of Visits 42)

Built at Burntisland By whom built Burntisland S. B. Co. Ltd. Yard No. 144 Tons Gross 1049 Net 585
Engines made at Sunderland By whom made North Eastern Mar. Eng. Co. Ltd. No. 2495 when built 1933.
Boilers made at Sunderland By whom made North Eastern Mar. Eng. Co. Ltd. Boiler No. 2495 when made 1933.
Registered Horse Power Owners Joseph Constantine Steamship Line Ltd. Port belonging to Middlesbrough.
Nom. Horse Power as per Rule 105 Is Refrigerating Machinery fitted for cargo purposes no. Is Electric Light fitted no.
Trade for which Vessel is intended

ENGINES, &c.—Description of Engines Installed triple expansion
Dia. of Cylinders 13 1/2" - 23" - 38" Length of Stroke 24" No. of Cylinders 3 Revs. per minute 88
Crank shaft, dia. of journals as per Rule 4 1/8" Crank pin dia. 4 1/8" Crank webs Mid. length breadth 1'-1" No. of Cranks 3 Thickness parallel to axis 4 13/16" 3"
as fitted 4 1/8" 4 13/16" Mid. length thickness 4 13/16" shrunk Thickness around eye-hole 3 5/16" 1 4 7/8"
Intermediate Shafts, diameter as per Rule none Thrust shaft, diameter at collars as per Rule 4 1/8" as fitted 4 1/8"
as fitted none Tube Shafts, diameter as per Rule none Screw Shaft, diameter as per Rule 8.09" as fitted 8 1/2" Is the screw shaft fitted with a continuous liner? Yes.
as fitted none Bronze Liners, thickness in way of bushes as per Rule 1 1/32" as fitted 9/16" Thickness between bushes as per Rule 1 1/32" as fitted 1/2" 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 one length full length fit
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? No. Is an approved Oil Gland or other appliance fitted at the after end of the tube shaft? No.
Propeller, dia. 11'-6" Pitch 11'-6" No. of Blades 4 Material C.I. whether Moveable no. Total Developed Surface 52 sq. feet
Feed Pumps worked from the Main Engines, No. 2 Diameter 2 1/4" Stroke 15" Can one be overhauled while the other is at work? Yes.
Bilge Pumps worked from the Main Engines, No. 2 Diameter 2 1/4" Stroke 15" Can one be overhauled while the other is at work? Yes.
Feed Pumps { No. and size 2 6" x 4" x 6" Pumps connected to the { No. and size one 8" x 9" x 8" How driven Steam Main Bilge Line How driven Steam.
Ballast Pumps, No. and size 1 @ 8" x 9" x 8" Lubricating Oil Pumps, including Spare Pump, No. and size none.
Are two independent means arranged for circulating water through the Oil Cooler? Yes.
Bilge Pumps;—In Engine and Boiler Room 3 @ 2 1/2" Suctions, connected to both Main Bilge Pumps and Auxiliary
In Holds, &c. 2 @ 3"

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 4" Independent Power Pump Direct Suctions to the Engine Room Bilges, No. and size 1 @ 3"
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? Hold Suctions (p.r.s.) none How are they protected? Wood Casing
What pipes pass through the deep tanks? none Have they been tested as per Rule? Yes.
Are all Pipts, 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 1906 sq. ft. & front tube plate 1841 sq. ft.
Is Forced Draft fitted? no. No. and Description of Boilers 1 S.B. Working Pressure 200 lbs/sq. in.
IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes.
IS A DONKEY BOILER FITTED? Yes.
PLANS. Are approved plans forwarded herewith for Shafting? Yes. If so, is a report now forwarded? Yes.
(If not state date of approval) Main Boilers Yes. Auxiliary Boilers Yes. Donkey Boilers Yes.
Superheaters none. General Pumping Arrangements Yes. Oil fuel Burning Piping Arrangements none.
SPARE GEAR. State the articles supplied:—

1 Cast Iron Propeller, 2 Bottom end bolts & nuts, 2 Top end bolts & nuts,
2 main bearing bolts & nuts, 6 Coupling bolts & nuts, 2 Feed Pump valves,
2 bilge pump valves, 1/2 cwt. assorted plate, 1/2 cwt. assorted iron bars,
50 assorted bolts & nuts.

The foregoing is a correct description,

Archd. L. Berry.

Manufacturer.



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Lloyd's Register
Foundation

003620 - 003624 - 0175

Date of writing Rpt.

Signature of Surveyor

Master

Engines made at

Boilers made at

Nominal Horse Power

MULTITUBULAR

Manufacturers of

Total Heating Surface

No. and Description

Tested by hydraulic

Area of Firegrate

Area of each set

In case of donkey

Smallest distance

Smallest distance

Largest internal

Thickness

Long. seams

Percentage of stress

Percentage of stress

Thickness of butt

Material

Length of plain

Dimensions of stiff

End plates in steam

How are stays secu

Tube plates: Mater

Lean pitch of stay

Ribbers to combust

Centre

Each

Tensile strength

Pitch of stays to ditta

Working pressure by

Thickness

Pitch of stays at wid

Working Pressure

Diameter

Working pressure by

Diameter

At body of st

Over threads

At turned off p

Over threads

During progress of work in shops - -

1933. Feb. 14, 21, 28. Mar. 7, 9, 14, 21, 22, 24, 29. Apr. 4, 5, 12, 21, 24, 25, 27. May. 1, 2, 9, 10, 12, 18, 19, 22, 24, 28, 29, 30. June. 1, 2, 12, 13, 14, 15, 19, 20, 23, 26, 28, 30. July. 3

Dates of Survey while building

During erection on board vessel - - -

Total No. of visits 42

FEB. 21. 28 MAR. 7. 14

Dates of Examination of principal parts—Cylinders APR. 24 MAY 2. Slides 19. 5. 33. Covers 14. 3. 33.

Pistons 10. 5. 33. Piston Rods 10. 5. 33. Connecting rods 14. 3. 33 19. 5. 33.

Crank shaft 4. 3. 33 5. 4. 33. 21. 4. 33. Thrust shaft 21. 4. 33. Intermediate shafts none.

Tube shaft none. Screw shaft 19. 5. 33 29. 5. 33. Propeller 1. 6. 33.

Stern tube 30. 5. 33. Engine and boiler seatings 12. 6. 33. Engines holding down bolts 19. 6. 33.

Completion of fitting sea connections (Leith Rpt.)

Completion of pumping arrangements 30. 6. 33. Boilers fixed 19. 6. 33. Engines tried under steam 30. 6. 33.

Main boiler safety valves adjusted 30. 6. 33. Thickness of adjusting washers P. 13/32 S 7/32 & 1/4 3/16

Crank shaft material Steel Identification Mark LLOYDS 6469 W.H.F. 21. 4. 33 Thrust shaft material Steel Identification Mark LLOYDS 6469 W.H.F. 21. 4. 33

Intermediate shafts, material none Identification Marks 6469 W.H.F. 29. 5. 33 Tube shaft, material none Identification Mark 21. 4. 33

Screw shaft, material Steel Identification Mark 6469 W.H.F. 29. 5. 33 Steam Pipes, material Steel Test pressure 600 Date of Test 16. 3. 33 19. 6. 33.

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 carrying and burning oil fuel been complied with ✓

Is this machinery duplicate of a previous case Yes. If so, state name of vessel "LINWOOD" (4 Cyl Superheat).

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

This machinery has been built under Special Survey in accordance with the Rules of the Society.

The materials & workmanship are good.

The machinery has been securely fitted on board the vessel & tried under steam with satisfactory results & is eligible, in my opinion, to have notation of L.M.C. 7. 33 T.S. (CL) in the Register Book.

The amount of Entry Fee ... £ 3 : 0 : 0 When applied for, Special ... £ 26 : 5 : 0 7 JULY 1933 Donkey Boiler Fee ... £ : : : When received, Travelling Expenses (if any) £ : : : 17. 7. 33

Committee's Minute

Assigned + L.M.C. 7. 33

C.L.

Signature of Engineer Surveyor

Engineer Surveyor to Lloyd's Register of Shipping.



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SUNDERLAND

Certificate to be sent to

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