

# REPORT ON STEAM RECIPROCATING ENGINE MACHINERY.

Received at London Office

Date of writing Report 10 When handed in at Local Office 10 AUG. 1928 Port of Sunderland

No. in Survey held at Sunderland Date, First Survey Apr. 13. Last Survey Aug 9 1928  
Reg. Book. on the Steel Screw Steamer 'WISLA' (Number of Visits 32)

Built at Stockton By whom built Craig Taylor & Co Ltd. Yard No. 224 Tons Gross Net When built 1928

Engines made at Sunderland By whom made North Eastern Marine Eng Co. Engine No. 2641 when made 1928

Boilers made at Sunderland By whom made North Eastern Marine Eng Co. Boiler No. 2641 when made 1928

Registered Horse Power - Owners Polish State S.S. Co. Port belonging to Lydyma  
(P. P. Zoluga, Polska)

Nom. Horse Power as per Rule 293 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

Trade for which Vessel is intended General cargo

## ENGINES, &c.—Description of Engines Triple Expansion—Single Screw Revs. per minute 66 1/2

Dia. of Cylinders 23 1/2 - 39 - 64 Length of Stroke 42 No. of Cylinders 3 No. of Cranks 3  
Crank shaft, dia. of journals as per Rule 12.101 Crank pin dia. 12 3/8 Crank webs Mid. length breadth Thickness parallel to axis 4 3/4  
as fitted 12 3/8 Mid. length thickness shrunk Thickness around eye-hole 6 3/16

Intermediate Shafts, diameter as per Rule 11.524 Thrust shaft, diameter at collars as per Rule 12.101  
as fitted 11 3/4 as fitted 12 3/8

Tube Shafts, diameter as per Rule Screw Shaft, diameter as per Rule 12.894 Is the screw shaft fitted with a continuous liner? Yes  
as fitted as fitted 13 3/8

Bronze Liners, thickness in way of bushes as per Rule 6.92 Thickness between bushes as per Rule 5.5 Is the after end of the liner made watertight in the  
as fitted 11/16 as fitted 5/8 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

Length of Bearing in Stern Bush next to and supporting propeller 4'-6"  
Propeller, dia. 16'-6" Pitch 16'-9" No. of Blades 4 Material cast iron whether Moveable No Total Developed Surface 83 sq. feet

Feed Pumps worked from the Main Engines, No. 2 Diameter 3" Stroke 24" Can one be overhauled while the other is at work Yes  
Bilge Pumps worked from the Main Engines, No. 2 Diameter 3 1/2" Stroke 24" Can one be overhauled while the other is at work Yes

Feed Pumps No. and size 1 - 6" x 4" x 6" Pumps connected to the Main Bilge Line No. and size 1 - 4" x 9" x 9"  
How driven Steam How driven Steam

Ballast Pumps, No. and size 1 - 4" x 9" x 9" 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 3 @ 2 1/2" dia.  
In Holds, &c. Fore Hold 2 @ 3 1/2" dia; aft Hold 2 @ 3 1/2" dia; 1 @ 3 1/2" dia. Hold Well  
Tunnel Well 1 @ 3 1/2" dia; Tunnel Drains 1 @ 3" dia.

Main Water Circulating Pump Direct Bilge Suctions, No. and size 1 @ 4" dia Independent Power Pump Direct Suctions to the Engine Room Bilges,  
No. and size 1 @ 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  
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 Main Discharge below  
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 Yes Is it fitted with a watertight door Yes worked from top platform

MAIN BOILERS, &c.—(Letter for record (S)) Total Heating Surface of Boilers 4606 sq. ft.  
Is Forced Draft fitted No No. and Description of Boilers Two Single ended Marine type Working Pressure 180 lbs. sq. in.

IS A REPORT ON MAIN BOILERS NOW FORWARDED? Yes  
IS A DONKEY BOILER FITTED? Yes (at mdr.) If so, is a report now forwarded? Yes (with mdr. Ship Rpt)

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

SPARE GEAR. State the articles supplied:—  
1 l.s. Propeller, 2 Bottom end belts & nuts, 2 Top end belts & nuts, 2 Main Bearing belts & nuts, 6 coupling belts & nuts, 2 Feed Pump Valves, 2 Bilge Pump Valves, 2 cuts of Iron Plates, 1 cut. of Iron Bar, 50 assorted bolts & nuts.

The foregoing is a correct description,

THE NORTH EASTERN MARINE ENGINEERING CO. LTD.

Archd. F. Berry

Manufacturer.



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Lloyd's Register Foundation

015172-015182-0107

Dates of Survey while building

During progress of work in shops - - 1928 Apr. 13, 18, 27, May 2, 5, 7, 10, 17, 18, 25, 31, June 7, 11, 19, 21, 22, 23, July 2, 3, 4, 9, 11, 12, 16, 18, 19, 21, 24, 26, 27, Aug. 8, 9

During erection on board vessel - - -

Total No. of visits 32

Dates of Examination of principal parts - Cylinders 11-7-28 Slides 2-7-28 Covers 11-7-28

Pistons 10-5-28 Piston Rods 13-4-28 Connecting rods 2-5-28

Crank shaft 7-6-28 Thrust shaft 7-6-28 Intermediate shafts 11-7-28

Tube shaft ✓ Screw shaft 4-7-28 Propeller 12-7-28

Stern tube 9-7-28 Engine and boiler seatings 16-7-28 Engines holding down bolts 26-7-28

Completion of fitting sea connections 2-7-28 (MIDDLESBROUGH)

Completion of pumping arrangements 27-7-28 Boilers fixed 27-7-28 Engines tried under steam 27-7-28

Main boiler safety valves adjusted 27-7-28 Thickness of adjusting washers P.F. 15" : P.A. 13" : S.F. 15" : S.A. 15"

Crank shaft material Ingot Steel Identification Mark A.T.G. 7-6-28 Thrust shaft material Ingot Steel Identification Mark A.T.G. 7-6-28

Intermediate shafts, material Ingot Steel Identification Marks SEE BELOW. Tube shaft, material ✓ Identification Mark ✓

Screw shaft, material Ingot Steel Identification Mark A.T.G. 4-7-28 Steam Pipes, material Solid drawn steel Test pressure 540 lbs/sq. in. Date of Test 24-7-28

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 9/s "Niemen".

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

The materials and workmanship are good.

The machinery has been constructed under Special Survey, and satisfactorily fitted in the vessel, and is eligible in my opinion for classification and the notation \*LMC 8, 28. C.L.

INTERMEDIATE SHAFTS No 5, LLOYDS No 2245, No 6, LLOYDS No 2246, No 7, LLOYDS No 2249,

IDENTIFICATION MARKS No 8, LLOYDS No 2250, No 9, LLOYDS No 2251. A.T.G. 11-7-28.

It is submitted that this vessel is eligible for THE RECORD. \*LMC 8.28 C.L.

25th 15/8/28

A. T. Griffith

The amount of Entry Fee ... £ 4 : : When applied for, 0 AUG. 1928

Special ... £ 68 : 19 : : When received, 16-8-28

Donkey Boiler Fee ... £ : : :

Travelling Expenses (if any) £ : : :

A. T. Griffith  
Engineer Surveyor to Lloyd's Register of Shipping.

Committee's Minute TUES. 28 AUG 1928

Assigned Hmc 8.28 C.L.

CERTIFICATE WRITTEN.



SUNDERLAND

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