

REPORT ON MACHINERY.

No. 3074

Received at London Office

THU. MAY 27. 1915

Date of writing Report 22nd May 1915 When handed in at Local Office 22nd May 1915 Port of G. StockholmNo. in Survey held at Thorskag G. Stockholm Date, First Survey 11th December 1914 Last Survey 5th May 1915

Reg. Book 135 on the Steel S.S. "Slure" (Number of Visits 13) Gross 254 Tons Net 122 Tons

Master C. H. Hilmarz Built at Thorskag By whom built P. Larsson When built 1915

Engines made at Thorskag By whom made P. Larsson when made 1915

Boilers made at Thorskag By whom made P. Larsson when made 1915

Registered Horse Power Owners Ingf. Abiel Rolf Port belonging to G. Stockholm

Nom. Horse Power as per Section 28 22 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted No

ENGINES, &c.—Description of Engines Compound No. of Cylinders 2 No. of Cranks 2

Dia. of Cylinders 13" x 20" Length of Stroke 16" Revs. per minute 150 Dia. of Screw shaft 5 1/2" Material of Steel

Is the screw shaft fitted with a continuous liner the whole length of the stern tube No liners fitted Is the after end of the liner made water tight in the propeller boss If the liner is in more than one length are the joints burned 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 Length of stern bush 22"

Dia. of Tunnel shaft as per rule 4.73" Dia. of Crank shaft journals as per rule 5" Dia. of Crank pin 5" Size of Crank webs 7" x 3" Dia. of thrust shaft under collar 5" Dia. of screw 6 1/2" Pitch of Screw 6 1/10" No. of Blades 4 State whether moveable No Total surface 11.6 sq'

of Feed pumps 1 Diameter of ditto 2" Stroke 8" Can one be overhauled while the other is at work

of Bilge pumps 1 Diameter of ditto 2" Stroke 8" Can one be overhauled while the other is at work

of Donkey Engines 1 Sizes of Pumps 4 1/2" x 3 3/4" x 4" No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 2-2" In Holds, &c. 2-2"

Bilge Injections 1 size 2 1/2" Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size Yes, 2 1/2"

All the bilge suction pipes fitted with roses Yes Are the roses in Engine room always accessible Yes Are the sluices on Engine room bulkheads always accessible Yes

All connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Box

They fixed sufficiently high on the ship's side to be seen without lifting the stokehold plates accessible Are the Discharge Pipes above or below the deep water line Yes

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 are carried through the bunkers None How are they protected

All Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

The Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Date of examination of completion of fitting of Sea Connections 11/4/15 of Stern Tube 11/4/15 Screw shaft and Propeller 24/4/15

Screw Shaft Tunnel watertight None fitted Is it fitted with a watertight door worked from

R.S., &c.—(Letter for record P) Manufacturers of Steel Phoenix & G. Hoerde Verein, Hoerde

Heating Surface of Boilers 490 sq' Is Forced Draft fitted No No. and Description of Boilers One cyl. multibubular

Working Pressure 120 lbs per sq' Tested by hydraulic pressure to 240 lbs per sq' Date of test 19/4/15 No. of Certificate 72

Can boiler be worked separately Area of fire grate in each boiler 46 sq' No. and Description of Safety Valves to

Boiler 2 Spring loaded Area of each valve 5.4 sq' Pressure to which they are adjusted 125 lbs Are they fitted with easing gear Yes

Distance between boilers or uptakes and bunkers or woodwork 6" Mean dia. of boilers 7' 8 3/8" Length 8' 2 1/4" Material of shell plates Steel

Range of tensile strength 45.3 kg/cm² Are the shell plates welded or flanged Flanged Descrip. of riveting: cir. seams None

Diameter of rivet holes in long. seams 7/8" Pitch of rivets 3 1/2" Lap of plates or width of butt straps 9"

Stages of strength of longitudinal joint rivets 77.7% plate 75.0% Working pressure of shell by rules 144 lbs Size of manhole in shell 12" x 16"

Compensating ring 6" x 2 1/2" No. and Description of Furnaces in each boiler 2 corrugated Material Steel Outside diameter 28"

of plain part top Thickness of plates 1/2" Description of longitudinal joint Welded No. of strengthening rings

Working pressure of furnace by the rules 260 lbs Combustion chamber plates: Material Steel Thickness: Sides 9/16" Back 19/32" Top 9/16" Bottom 9/16"

of stays to ditto: Sides 7" x 9" Back 7 3/4" x 8" Top 7" x 8" If stays are fitted with nuts or riveted heads Both Working pressure by rules 128 lbs

Diameter of stays Steel Diameter at smallest part 1 1/4" Area supported by each stay 63 sq' Working pressure by rules 156 lbs End plates in steam space:

Material Steel Thickness 3/4" Pitch of stays 12" x 13" How are stays secured Nuts & washers Working pressure by rules 170 lbs Material of stays Steel

Diameter at smallest part 1 3/4" Area supported by each stay 156 sq' Working pressure by rules 154 lbs Material of Front plates at bottom Steel

Material of Lower back plate Steel Thickness 3/4" Greatest pitch of stays to per plate Working pressure of plate by rules

Diameter of tubes 3" Pitch of tubes 4" x 4" Material of tube plates Steel Thickness: Front 3/4" Back 3/4" Mean pitch of stays to per plate

across wide water spaces 10" Working pressure by rules 121 lbs Girders to Chamber tops: Material Steel Depth and

Weight of girder at centre 5" x 1 1/8" Length as per rule 18" Distance apart 8" Number and pitch of stays in each Two 7"

Working pressure by rules 189 lbs Superheater or Steam chest; how connected to boiler Can the superheater be shut off and the boiler worked

separately Diameter Length Thickness of shell plates Material Description of longitudinal joint Diam. of rivet

Pitch of rivets Working pressure of shell by rules Diameter of flue Material of flue plates Thickness

Stays stiffened with rings Distance between rings Working pressure by rules End plates: Thickness How stayed

Working pressure of end plates Area of safety valves to superheater Are they fitted with easing gear

No. of Visits 13

Lloyd's Register Foundation

W527-0251

IS A DONKEY BOILER FITTED? *No*

If so, is a report now forwarded? *✓*

SPARE GEAR. State the articles supplied:— *2 connecting rod top and bolts and nuts, 2 con-
rod bottom and bolts and nuts, 2 main bearing bolts, 1 set of coupling
bolts, 1 set of feed and bilge pump valves, 1 set of piston springs,
a quantity of assorted bolts and nuts, iron of various sizes.*

The foregoing is a correct description,

J. L. Lacey

Manufacturer.

Dates of Survey while building { During progress of work in shops - - 1914: Dec. 21, 1915: Jan. 30, March 2, 17, April 8, 11, 19,
During erection on board vessel - - 1915: April 8, 11, 19, 24, May 5.
Total No. of visits 13

Is the approved plan of main boiler forwarded herewith *✓*

Dates of Examination of principal parts—Cylinders *30/1/15 3/3/15* Slides *2/3/15* Covers *2/3/15* Pistons *2/3/15* Rods *2/3/15 3/3/15*
Connecting rods *30/1/15* Crank shaft *2/4/15 30/1/15 2/4/15* Thrust shaft *30/1/15 2/4/15* Tunnel shafts *✓* Screw shaft *2/4/15* Propeller *11/4/15*
Stern tube *17/3/15* Steam pipes tested *11/4/15* Engine and boiler seatings *2/12/14 30/1/15* Engines holding down bolts *30/1/15*
Completion of pumping arrangements *24/4/15* Boilers fixed *24/4/15* Engines tried under steam *7/5/15*

Main boiler safety valves adjusted *5/5/15* Thickness of adjusting washers *None fitted*

Material of Crank shaft *Steel* Identification Mark on Do. *8.4.15 K.B.* Material of Thrust shaft *Steel* Identification Mark on Do. *8.4.15 K.B.*

Material of Tunnel shafts *✓* Identification Marks on Do. *✓* Material of Screw shafts *Steel* Identification Marks on Do. *8.4.15 K.B.*

Material of Steam Pipes *Copper* Test pressure *240 lbs per sq. inch.*

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 Section 49 of the Rules been complied with *✓*

Is this machinery duplicate of a previous case *No* If so, state name of vessel *✓*

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

This machinery has been built under the usual conditions of Special Survey, and all the requirements of the Rules have been complied with.

The boiler as per approved plan. The shafting as per forging reports attached.

The machinery of this vessel is eligible in our opinion to be classed in the Reg Book of this Society with the notation of LMC 5/15, being in a good and safe working condition at a working pressure on the boiler of 120 lbs per sq. inch.

The amount of Entry Fee ... £ Kr. 18.40 When applied for, 22nd May 1915
Special ... £ Kr. 147.00
Donkey Boiler Fee ... £
Travelling Expenses (if any) £

Committee's Minute FRI. JUN. 25. 1915
Assigned + LMC 5.15

FRI. MAY. 12. 1916
FRI. 25. AUG. 1916
FRI. 15. JUN. 1917

© 2020

Lloyd's Register Foundation

MACHINERY CERTIFICATE
NOTED.