

Rpt. 4.

REPORT ON MACHINERY.

No. 5

Received at London Office SAT. 13 AUG. 1921

Date of writing Report 15th July 1921 When handed in at Local Office

10 Port of Prague

No. in Survey held at Smichov
Reg. Book.Date, First Survey 21. 12. 20 Last Survey 2nd May 1921
(Number of Visits 12)on the S S N^o 189Tons { Gross
Net
When built 1921

Master Built at Lussinpiccolo By whom built Messrs M. U. Martinolich & Co.

Engines made at Prague Smichov By whom made The United Machine Factories, Ltd. when made 1921-5

Boilers made at By whom made when made

Registered Horse Power Owners Port belonging to

Nom. Horse Power as per Section 28 Is Refrigerating Machinery fitted for cargo purposes Is Electric Light fitted

ENGINES, &c.—Description of Engines Triple Expansion No. of Cylinders 3 No. of Cranks 3
Dia. of Cylinders 240 - 430 - 700^{1/2} Length of Stroke 500^{1/2} Revs. per minute 160 Dia. of Screw shaft as per rule 151.9 Material of S. M. Steel
as fitted 153.3 screw shaftIs the screw shaft fitted with a continuous liner the whole length of the stern tube no, 2 liners Is the after end of the liner made water tight
in the propeller boss Yes 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 615^{1/2} Inlets bushDia. of Tunnel shaft as per rule 131.74 Dia. of Crank shaft journals as per rule 138.33 Dia. of Crank pin 145 Size of Crank webs 90/165 Dia. of thrust shaft under
as fitted 135.140 as fitted 145.5 collars 145 Dia. of screw 2055 Pitch of Screw No. of Blades 4 State whether moveable Total surfaceNo. of Feed pumps 1 Diameter of ditto 60^{1/2} Stroke 200^{1/2} Can one be overhauled while the other is at workNo. of Bilge pumps 1 Diameter of ditto 60^{1/2} Stroke 200^{1/2} Can one be overhauled while the other is at workNo. of Donkey Engines 1 Sizes of Pumps 2 x 140-90/12^{1/2} No. and size of Suctions connected to both Bilge and Donkey pumpsIn Engine Room 3 - 55^{1/2} In Holds, &c. 2 - 55^{1/2}No. of Bilge Injections 1 sizes 40^{1/2} Connected to condenser, or to circulating pump Donkey Is a separate Donkey Suction fitted in Engine room & size 2 1/2

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

Are all connections with the sea direct on the skin of the ship Are they Valves or Cocks

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

Are they each fitted with a Discharge Valve always accessible on the plating of the vessel Are the Blow Off Cocks fitted with a spigot and brass covering plate

What pipes are carried through the bunkers How are they protected

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

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

Is the Screw Shaft Tunnel watertight Is it fitted with a watertight door worked from

BOILERS, &c.—(Letter for record) Manufacturers of Steel

Total Heating Surface of Boilers Is Forced Draft fitted No. and Description of Boilers

Working Pressure Tested by hydraulic pressure to Date of test No. of Certificate

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

each boiler Area of each valve Pressure to which they are adjusted Are they fitted with easing gear

Smallest distance between boilers or uptakes and bunkers or woodwork Mean dia. of boilers Length Material of shell plates

Thickness Range of tensile strength Are the shell plates welded or flanged Descrip. of riveting: cir. seams

long. seams Diameter of rivet holes in long. seams Pitch of rivets Lap of plates or width of butt straps

Per centages of strength of longitudinal joint rivets Working pressure of shell by rules Size of manhole in shell
plate

Size of compensating ring No. and Description of Furnaces in each boiler Material Outside diameter

Length of plain part top Thickness of plates crown Description of longitudinal joint No. of strengthening rings
bottom

Working pressure of furnace by the rules Combustion chamber plates: Material Thickness: Sides Back Top Bottom

Pitch of stays to ditto: Sides Back Top If stays are fitted with nuts or riveted heads Working pressure by rules

Material of stays Area at smallest part Area supported by each stay Working pressure by rules End plates in steam space:

Material Thickness Pitch of stays How are stays secured Working pressure by rules Material of stays

Area at smallest part Area supported by each stay Working pressure by rules Material of Front plates at bottom

Thickness Material of Lower back plate Thickness Greatest pitch of stays Working pressure of plate by rules

Diameter of tubes Pitch of tubes Material of tube plates Thickness: Front Back Mean pitch of stays

Pitch across wide water spaces Working pressures by rules Girders to Chamber tops: Material Depth and

thickness of girder at centre Length as per rule Distance apart Number and pitch of stays in each

Working pressure by rules Steam dome: description of joint to shell % of strength of joint

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

Pitch of rivets Working pressure of shell by rules Crown plates Thickness How stayed

SUPERHEATER. Type Date of Approval of Plan Tested by Hydraulic Pressure to

Date of Test Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler

Diameter of Safety Valve Pressure to which each is adjusted Is Easing Gear fitted

004376-609786-0072

Lloyd's Register
Foundation

IS A DONKEY BOILER FITTED?

If so, is a report now forwarded?

SPARE GEAR. State the articles supplied:— 2 Bottom ends bolts & nuts, 2 Top end bolts & nuts, 2 main bolts & nuts, 1 set coupling bolts & nuts, 1 set piston rings for each cylinder, 1 set feed pump valves, 1 set bilge pump valves, 1 propeller. Bolts and nuts assorted and iron bars assorted.

The foregoing is a correct description,

Manufacturer.

Společnost strojní a kovářská
v Brně, Rastou. Bratři a Rastou. Bratři
Ústřední ředitelství

Dates of Survey while building { During progress of work in shops - - 21.12.20. 12/1/21, 8/3, 11/3, 29/3, 1/4, 3/4, 11/4, 25/4, 29/4, 2/5
During erection on board vessel - - -
Total No. of visits

Is the approved plan of main boiler forwarded herewith -

" " donkey " " "

Dates of Examination of principal parts—Cylinders 29.3.21 Slides 29.3.21 Covers 21.12.20 Pistons 26.4.21 Rods 25.4.21
Connecting rods 29.3.21 Crank shaft 25.4.21 Thrust shaft 25.4.21 Tunnel shafts 23.3.21 Screw shaft 2.5.21 Propeller

Stern tube 11.2.21 Steam pipes tested Engine and boiler seatings Engines holding down bolts

Completion of pumping arrangements Boilers fixed Engines tried under steam

Completion of fitting sea connections Stern tube Screw shaft and propeller

Main boiler safety valves adjusted Thickness of adjusting washers

Material of Crank shaft Steel Identification Mark on Do. 421 CRH Material of Thrust shaft Steel Identification Mark on Do. 392 CRH 3/3

Material of Tunnel shafts Steel Identification Marks on Do. 388-9-390 Material of Screw shafts Steel Identification Marks on Do. 387

Material of Steam Pipes Test pressure

Is an installation fitted for burning oil fuel 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 If so, state name of vessel

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

As far as seen the material and workmanship found satisfactory.

The amount of Entry Fee £
Special £
Donkey Boiler Fee £
Travelling Expenses (if any) £
When applied for, 19
When received, 19

Committee's Minute

FRI. 16 SEP. 1921

Assigned

C. R. Hughes

Engineer Surveyor to Lloyd's Register of Shipping

TUE MAR 20 1923

FRI JUL 27 1923

See Tr 26.5140

WED AUG 8 1923

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