

REPORT ON MACHINERY.

No. 4932

Received at London Office SAT. FEB. 5 1921

Date of writing Report 11.1.1920 When handed in at Local Office 19.1.1920 Port of Trieste
 No. in Survey held at Prague Smichov & Monfalcone Date, First Survey May 27 Last Survey Jan 1 1921
 Reg. Book. on the S.S. Vittoria (Number of Visits 22)

Master G. Guidi Built at Monfalcone By whom built Cantieri Navale Sirostino Tons { Gross 1400 Net 1000 }
 Engines made at Smichov By whom made United Machine Sattani when made 1920

Boilers made at Koniggratz & Monfalcone By whom made do do do and when made 1920
 Registered Horse Power Owners Compagnia Italiana di Navigazione e Commercio d'Oltremare Port belonging to Roma

Nom. Horse Power as per Section 28 383 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted Yps.

See Prague Report No. 5. Description of Engines Simple Expansion No. of Cylinders 3 No. of Cranks 3
 Dia. of Cylinders 24 1/2 x 41 x 68 Length of Stroke 45 Revs. per minute 46 Dia. of Screw shaft as per rule 12.9 14.03 Material of S.M. Steel
 as fitted 14.5 screw shaft

Is the screw shaft fitted with a continuous liner the whole length of the stern tube Yps. Is the after end of the liner made water tight
 in the propeller boss Yps. 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 Fits tightly If two

ers are fitted, is the shaft lapped or protected between the liners Length of stern bush 39" Brass bush 17 1/2"

a. of Tunnel shaft as per rule 12.4 12.6 Dia. of Crank shaft journals as per rule 13.0 13.3 Dia. of Crank pin 13.5 Size of Crank webs 26.3 Dia. of thrust shaft under
 lars 13.3 Dia. of screw 17.0 Pitch of Screw 17.0 No. of Blades 4 State whether moveable No Total surface 87 sq ft

. of Feed pumps 2 Diameter of ditto 4" Stroke 23.6 Can one be overhauled while the other is at work Yps. ✓
 . of Bilge pumps 2 Diameter of ditto 4" Stroke 23.6 Can one be overhauled while the other is at work Yps. ✓

. of Donkey Engines 4 3 1/2 Sizes of Pumps 10.43 x 12 x 9.8 6.0 x 6.0 x 6.0 No. and size of Suctions connected to both Bilge and Donkey pumps
 Engine Room 4 2 3 1/2 12 5 of hull 6.0 x 4.0 x 4.4 In Holds, &c. 4 2 3 1/2 forward 4 2 3 1/2 aft. ✓

. of Bilge Injections 1 sizes 5.9 Connected to condenser, or to circulating pump Yps. Is a separate Donkey Suction fitted in Engine room & size 12 3/4 ✓

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

Are all connections with the sea direct on the skin of the ship Yps. Are they Valves or Cocks Both ✓

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

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

How are they protected

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

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

Is the Screw Shaft Tunnel watertight See hull report Is it fitted with a watertight door Yps. worked from top platform in Engine room.

See Prague Report No. 5. Manufacturers of Steel Witkowitz, Bergh & Eisenh Yps. Gelsenkirchener Berg- & Hütten-AG

Total Heating Surface of Boilers 5243 sq ft Is Forced Draft fitted Yps. No. and Description of Boilers 2 Single ended.

Working Pressure 12.65 kg/cm² Tested by hydraulic pressure to 160 lbs. Date of test 19.10.20 No. of Certificate 218 & 219.

Can each boiler be worked separately Yps. Area of fire grate in each boiler 5.9456 sq m 64 No. and Description of Safety Valves to

each boiler 2 direct spring Area of each valve 9.62" Pressure to which they are adjusted 18.5 lb. Are they fitted with easing gear Yps. ✓

Smallest distance between boilers and bunkers or stowage 2.8" Mean dia. of boilers 4424 Length 3605 Material of shell plates S.M. Steel

Thickness 32 Range of tensile strength 44-2 to 47.2 Are the shell plates welded or flanged ✓ Descrip. of riveting: cir. seams double lap.

Long. seams shell DB Diameter of rivet holes in long. seams 34 Pitch of rivets 232.66 Lap of plates or width of butt straps 500

Percentage of strength of longitudinal joint rivets 90.7 Working pressure of shell by rules 18.9 Size of manhole in shell 407 x 508.

Size of compensating ring 813 x 916 x 33 No. and Description of Furnaces in each boiler 3 Morrison Material Steel Outside diameter 1225.

Length of plain part top Thickness of plates crown 16 Description of longitudinal joint welded. No. of strengthening rings

Working pressure of furnace by the rules 13.1 Combustion chamber plates: Material Steel Thickness: Sides 18 Back 18 Top 18 Bottom 23

Pitch of stays to ditto: Sides 234 x 228 Back 260 x 225 Top 248 x 254 Stays are fitted with nuts or riveted heads nuts Working pressure by rules 13.46.

Material of stays Steel Area at smallest part 6.33 Area supported by each stay 260 x 225 Working pressure by rules 13.46 End plates in steam space:

Material Steel Thickness 34 Pitch of stays 600 x 420 How are stays secured Nuts & Washers Working pressure by rules 15.26 Material of stays Steel

Area at smallest part 4.3 Area supported by each stay 600 x 420 Working pressure by rules 13.84 Material of Front plates at bottom Steel

Thickness 23.5 Material of Lower back plate Steel Thickness 21 Greatest pitch of stays 340 x 225 Working pressure of plate by rules 12.8.

Diameter of tubes 16 Pitch of tubes 108 x 103.5 Material of tube plates Steel Thickness: Front 23.5 Back 20 Mean pitch of stays 211.5

Pitch across wide water spaces 340 Working pressures by rules 12.9 Girders to Chamber tops: Material Steel Depth and

Thickness of girder at centre 225 x 48 Length as per rule 953 Distance apart 254 Number and pitch of stays in each 3 @ 228.

Working pressure by rules 13.34 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

UPERHEATER. Type 1 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

W649-0185

W649-0186

IS A DONKEY BOILER FITTED? *Yes.*

If so, is a report now forwarded? *Yes.*

SPARE GEAR. State the articles supplied:— *Two bottom and bolts & nuts, four top end bolts & nuts, two main bearing bolts & nuts, 1 set coupling bolts & nuts, 1 set of feed pump valve, 1 propeller, 1 propeller shaft, 1 spare spring for all safety valves, 1 set crank pin & 1 set of cross-hairs, 1 air & circulating pump rod, 1 set of valves for both, 1 set of piston springs for each cylinder, Condenser tubes & females, and an assortment of bolts, nuts & star washers.*

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building
During progress of work in shops --
During erection on board vessel --
Total No. of visits

1920 May 27, June 7, 11, 22, July 5, 29, Aug 7, 25, Sep 16, 25, Oct 7, 15, 29, 29, Dec 4, 5, 10, 21
Twenty two

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

" " " donkey " " " *Yes*

Dates of Examination of principal parts—Cylinders *19/1/20, 27/1* Slides *19/1/20, 27/1* Covers *19/1, 27/1* Pistons *19/1, 27/1* Rods *19/1, 27/1*

Connecting rods *12/1/20, 27/1* Crank shaft *29/12/19* Thrust shaft *29/12/19* Tunnel shafts *29/12/19* Screw shaft *13/4/20* Propeller *11/6/20*

Stern tube *27/1/20, 2/2/20* Steam pipes tested *5/12/20* Engine and boiler seatings *7/8/20* Engines holding down bolts *15/10/20*

Completion of pumping arrangements *10/12/20* Boilers fixed *27/12/20* Engines tried under steam *27/12/20*

Completion of fitting sea connections *7/6/20* Stern tube *7/6/20* Screw shaft and propeller *11/6/20*

Main boiler safety valves adjusted *1/1/21* Thickness of adjusting washers *P. 84 P. 130, S. 155, S. 156, P. 150, S. 150*

Material of Crank shaft *Steel* Identification Mark on Do. *404 118 1/16* Material of Thrust shaft *Steel* Identification Mark on Do. *4316 1/16*

Material of Tunnel shafts *Steel* Identification Marks on Do. *297 1/16, 298 1/16, 299 1/16, 300 1/16, 301 1/16, 302 1/16, 303 1/16, 304 1/16, 305 1/16, 306 1/16, 307 1/16, 308 1/16, 309 1/16, 310 1/16, 311 1/16, 312 1/16, 313 1/16, 314 1/16, 315 1/16, 316 1/16, 317 1/16, 318 1/16, 319 1/16, 320 1/16, 321 1/16, 322 1/16, 323 1/16, 324 1/16, 325 1/16, 326 1/16, 327 1/16, 328 1/16, 329 1/16, 330 1/16, 331 1/16, 332 1/16, 333 1/16, 334 1/16, 335 1/16, 336 1/16, 337 1/16, 338 1/16, 339 1/16, 340 1/16, 341 1/16, 342 1/16, 343 1/16, 344 1/16, 345 1/16, 346 1/16, 347 1/16, 348 1/16, 349 1/16, 350 1/16, 351 1/16, 352 1/16, 353 1/16, 354 1/16, 355 1/16, 356 1/16, 357 1/16, 358 1/16, 359 1/16, 360 1/16, 361 1/16, 362 1/16, 363 1/16, 364 1/16, 365 1/16, 366 1/16, 367 1/16, 368 1/16, 369 1/16, 370 1/16, 371 1/16, 372 1/16, 373 1/16, 374 1/16, 375 1/16, 376 1/16, 377 1/16, 378 1/16, 379 1/16, 380 1/16, 381 1/16, 382 1/16, 383 1/16, 384 1/16, 385 1/16, 386 1/16, 387 1/16, 388 1/16, 389 1/16, 390 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