

REPORT ON MACHINERY. No. _____

Writing Report 24.5.21 When handed in at Local Office 24.5.21 Port of Genoa Received at London Office _____
 Survey held at Sampierdarena Date, First Survey Jan 23rd 1920 Last Survey Genoa. 23.5.21
 Book. _____ (Number of Visits) Genoa - 20
 on the _____
 Built at _____ By whom built Societa Acciaierie e Cantieri Anonima
 Made at Sampierdarena By whom made Geo Ansaldo & Co When built _____
 Made at _____ By whom made _____ when made 1921
 Indicated Horse Power 522 Owners _____ when made 1921
 Horse Power at Full Power 2200 Is Refrigerating Machinery fitted for cargo purposes _____
 Port belonging to _____ Is Electric Light fitted _____

LINE ENGINES, &c. — Description of Engines Geared Turbines No. of Turbines 3
 No. of Rotor Shaft Journals, H.P. 2.9 L.P. 4.5 Diameter of Pinion Shaft 12.2
 No. of Journals 9.4 Distance between Centres of Bearings 57.87 Diameter of Pitch Circle 55.78
 No. of Wheel Shaft 14.17 Distance between Centres of Bearings 65.9 Diameter of Pitch Circle of Wheel 110.07
 Diameter of Thrust Shaft under Collars 14.33 Diameter of Tunnel Shaft as per rule 12.8
 Diameter of same as fitted 15.11 Diameter of Propeller 202.75 Pitch of Propeller 196.85
 Diameter of Rotor Drum, H.P. 11.8 L.P. 31.49 Astern 22.83
 Revs. per Minute at Full Power, Turbine 4574 Propeller 73

DETAILS OF BLADING.

EXPANSION	H.P. MP			L.P.			ASTERN.		
	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.	HEIGHT OF BLADES.	DIAMETER AT TIP.	NO. OF ROWS.
25/5	9.0	16.9	11.25 16.34 10 10	2.5	27.08	5	1.49	25.82	2
31/3	8.0	1.81	12.59 18.18 8 8	3.15	28.34	5	2.12	27.08	2
17/6	1.10	2.12	13.6 19.6 7 7	3.93	29.9	5	3	28.8	2
28/6	1.22	2.44	14.92 21.4 6 6	3.99	37.48	3	3	28.8	2
6/21				3.78	39.05	3	3	28.8	2
17 in a				4.72	40.94	3			
10/05				5.11	41.73	2			
10/05				6.34	44.09	2			
20. PTB				4.64	46.83	2			

size of Feed pumps _____
 size of Bilge pumps _____
 size of Bilge suction in Engine Room _____
 In Holds, &c. _____
 Bilge Injections _____
 Are the bilge suction pipes fitted with roses _____
 Are the roses in Engine room always accessible _____
 Are they Valves or Cocks _____
 Are the Discharge Pipes above or below the deep water line _____
 Are the Blow Off Cocks fitted with a spigot and brass covering plate _____
 How are they protected _____
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____
 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges _____
 Shaft Tunnel watertight _____
 Is it fitted with a watertight door _____
 Is a separate Donkey Suction fitted in Engine Room & size _____
 Are the valves or cocks _____
 Are the Discharge Pipes above or below the deep water line _____
 Are the Blow Off Cocks fitted with a spigot and brass covering plate _____
 How are they protected _____
 Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times _____
 Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges _____
 Shaft Tunnel watertight _____
 Is it fitted with a watertight door _____

BOILERS, &c. — (Letter for record S) Manufacturers of Steel Supplied by the Italian Govt to the Courcier's Contractors
 Heating Surface of Boilers 6600 sq ft Is Forced Draft fitted Yes No. and Description of Boilers 2 Horizontal Multitubular
 Working Pressure 180 lbs Tested by hydraulic pressure to 360 lbs Date of test 15.12.20 No. of Certificate 146
 boiler be worked separately Yes Area of fire grate in each boiler 65.95 sq ft No. and Description of Safety Valves to _____
 Area of each valve _____ Pressure to which they are adjusted _____ Are they fitted with easing gear _____
 distance between boilers or uptakes and bunkers or woodwork _____ Mean dia. of boilers 198.05 Length 141.6 Material of shell plates steel
 Range of tensile strength 29-32 Are the shell plates welded or flanged No Descrip. of riveting: cir. seams Double
 Diameter of rivet holes in long. seams 1.57 Pitch of rivets 16.69-9.34-4.17 Lap of plates _____ width of butt straps 23.78
 rivets 93.8 Working pressure of shell by rules 185.5 Size of manhole in shell 17" x 12"
 plates 90.5
 compensating ring 3 1/2 x 35 1/2 No. and Description of Furnaces in each Boiler 3 Suspension Material steel Outside diameter 51.89
 top 4.7 crown 10.5 Description of longitudinal joint Welded No. of strengthening rings _____
 plain part bottom 4.7 bottom 7.6
 pressure of furnace by the rules 205.75 Combustion chamber plates: Material steel Thickness: Sides 11/16 Back 11/16 Top 11/16 Bottom 15/16
 Sides 4.9 x 4.48 Back 8.74 x 8.07 Top 8.74 x 4.48 If stays are fitted with nuts or riveted heads _____
 Diameter at smallest part 1.74-1.74 Area supported by each stay 65.5 Working pressure by rules 242 lbs End plates in steam space _____
 Thickness 15.75 Pitch of stays 17.5 x 17.5 How are stays secured 220 butt Working pressure by rules 180 lbs Material of stays steel
 at smallest part 7.04 Area supported by each stay 31.2 Working pressure by rules 195.27 Material of Front plates at bottom steel
 Material of Lower back plate steel Thickness 13/16 Greatest pitch of stays 14.17 Working pressure of plate by rules 230 lbs
 Pitch of tubes 4.13 Material of tube plates steel Thickness: Front 15.75 x 13.75 Back 13.75 Mean pitch of stays 8.26
 Working pressures by rules 183 lbs Girders to Chamber tops: Material steel Depth and _____
 Length as per rule 30.4 Distance apart 8.74 Number and pitch of stays in each 3-4.48
 Steam dome: description of joint to shell Welded % of strength of joint _____ Diameter _____
 Description of longitudinal joint _____ Diameter of rivet holes _____ Pitch of rivets _____
 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 _____

IS A DONKEY BOILER FITTED? Auxiliary Boiler YES If so, is a report now forwarded? Yes.

SPARE GEAR. State the articles supplied:—

The foregoing is a correct description,

Manufacturer. **S. A. I. GIO. ANSALDO & C.
 TABILIMENTO MECCANICO
 SAMPIERDARENA**

Dates of Survey while building { During progress of work in shops -- 1920 Jan 23-29 March 10-29 April 17 May 25 June 8 June 30 July 1 Nov 30 Dec. 1
 During erection on board vessel --- Feb 1921, 22, 25, 26 Mar. 5, 10 Apr 18 May 23, 24.
 Total No. of visits _____

Is the approved plan of main boiler forwarded herewith Yes

Dates of Examination of principal parts—Casings 29/1/20 Rotors 8/6/20 " " donkey " " " Yes
 Blading 8/6/20 Gearing 25/5/20

Rotor shaft 8/6/20 Thrust shaft 8'6" 20 Tunnel shafts 8'6" 20 Screw shaft 10.12.20 Propeller _____

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

Completion of pumping arrangements _____ Boilers fixed _____ Engines tried under steam IN SHOP 28.6.

Main boiler safety valves adjusted _____ Thickness of adjusting washers _____

Material and tensile strength of Rotor shaft Siemens Martin Steel 34 tons Identification Mark on Do. LLOYDS 17.5.20

Material and tensile strength of Pinion shaft do. 31 tons Identification Mark on Do. LLOYDS 17.20 PTB

Material of Wheel shaft steel Identification Mark on Do. LLOYDS 18.8.20 Material of Thrust shaft steel Identification Mark on Do. 2.1.21

Material of Tunnel shafts steel Identification Marks on Do. LLOYDS MK 8'6" 20 Material of Screw shafts steel Identification Marks on Do. 2.1.21

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 a duplicate of a previous case _____ If so, state name of vessel _____

General Remarks (State quality of workmanship, opinions as to class, &c.) This machinery has been built under special survey in accordance with the Rules and approved plans. The materials and workmanship are good. The engines were tested under steam in the shops with satisfactory results and afterwards opened out examined and found in good order.

The amount of Entry Fee ... £ 6-0-0 GENOA = 180.15.0 - Lit 5870.
 Special ... £ 101-2-0 TRIESTE = 20.400
 Donkey Boiler Fee ... £ : :
 Travelling Expenses (if any) £ : :
 When received, 7-11-21
 Engineer Surveyor to Lloyd's Register of Shipping. Mannie Peterson & P. P. Rau

Committee's Minute FRI. 2 SEP. 1921

Assigned + L.P.M. 7.21
F.D. C.L.

TUE. NOV. 15 1921

TUE. 16 MAY. 1922



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Certificate (if required) to be sent to Committee's Minute. (The Surveyors are requested not to write on or below the space for Committee's Minute.)