

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 Genoa. 23.5.21.
 Survey held at Sampierdarena Date, First Survey Jan 23rd 1920 Last Survey Genoa. 20.
 on the Book. (Number of Visits 19)
 Built at Sampierdarena By whom built Societa Acciaieria e Cantieri Anonima Tons { Gross
 es made at Sampierdarena By whom made Geo Annaldi & Co Net
 rs made at " By whom made " When built 1921.
 Horse Power 522 Owners " when made 1921.
 Horse Power at Full Power 2200 Is Refrigerating Machinery fitted for cargo purposes " Is Electric Light fitted "
 Port belonging to "

LINE ENGINES, &c.—Description of Engines Geared Turbines No. of Turbines 3
 of Rotor Shaft Journals, H.P. 2.9" L.P. 4.5" Diameter of Pinion Shaft 12.2"
 of Journals 9.4" Distance between Centres of Bearings 57.87" Diameter of Pitch Circle 55.78"
 of Wheel Shaft 14.17" Distance between Centres of Bearings 65.9" Diameter of Pitch Circle of Wheel 110.07"
 of Face 43.69" Diameter of Thrust Shaft under Collars 14.33" Diameter of Tunnel Shaft as per rule 12.8"
 Screw Shafts one Diameter of same as per rule 14.2" as fitted 15.11" Diameter of Propeller 202.75" Pitch of Propeller 196.85"
 Blades 4 State whether Moveable no Total Surface 122.7 Diameter of Rotor Drum, H.P. 905" L.P. 3149" Astern 22.85"
 at Bottom of Groove, H.P. one L.P. one Astern one Revs. per Minute at Full Power, Turbine 4574 Propeller 73

DETAILS OF BLADING.

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. |
|-----------|----------------------|------------------|--------------|----------------------|------------------|--------------|----------------------|------------------|--------------|
| EXPANSION | 9.169 | 11.25 | 16.34 | 10 | 10 | 2.5 | 1.49 | 25.82 | 2 |
| " | 8.161 | 12.59 | 18.18 | 8 | 8 | 3.15 | 2.12 | 27.08 | 2 |
| " | 1.10 | 13.6 | 19.6 | 7 | 7 | 3.93 | 3 | 28.8 | 2 |
| " | 1.22 | 14.92 | 21.41 | 6 | 6 | 3.99 | 3 | 28.8 | 2 |
| " | | | | | | 3.78 | 3 | 28.8 | 2 |
| " | | | | | | 4.72 | 3 | 28.8 | 2 |
| " | | | | | | 5.11 | 2 | | |
| " | | | | | | 6.34 | 2 | | |
| " | | | | | | 7.64 | 2 | | |

size of Feed pumps

size of Bilge pumps

size of Bilge suction in Engine Room

In Holds, &c.

Bilge Injections

sizes

Connected to condenser, or to circulating pump

Is a separate Donkey Suction fitted in Engine Room & size

the bilge suction pipes fitted with roses

Are the roses in Engine room always accessible

connections with the sea direct on the skin of the ship

Are they Valves or Cocks

fitted 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

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

are carried through the bunkers

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

new Shaft Tunnel watertight

Is it fitted with a watertight door

RS, &c.—(Letter for record S)

Manufacturers of Steel

Heating Surface of Boilers 6600

Is Forced Draft fitted yes

worked from

supplied by the British Govt. to the Comorzo Contractors

Place and Reg. No. of certificate

Pressure

180

Tested by hydraulic pressure to 360

No. and Description of Boilers 2 Horizontal Multitubular

Date of test

15.12.20

No. of Certificate 146

boiler be worked separately

yes

Area of fire grate in each boiler

65.95

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

16.69-8.34-4.17

Lap of plates

23.78

of strength of longitudinal joint

93.8

Working pressure of shell by rules

185.5

Size of manhole in shell

17" x 12"

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"

plain part

4.7

Thickness of plates

10.5

Description of longitudinal joint

Welded

No. of strengthening rings

pressure of furnace by the rules

205.75

Combustion chamber plates: Material

steel

Thickness: Sides

11"

Back

11"

Top

15"

days to ditto: Sides

4.9 x 4.8

Back

8.74 x 4.8

Top

8.74 x 4.8

If stays are fitted with nuts or riveted heads

others riveted

Working pressure by rules

204

End plates in steam space

204.5

Working pressure by rules

189

of stays

steel

Diameter at smallest part

1.57

Area supported by each stay

3.12

How are stays secured

220

Working pressure by rules

180

Material of stays

steel

Material of Front plates at bottom

steel

at smallest part

7.04

Pitch of stays

14.5

Working pressure by rules

195

Material of Lower back plate

steel

Thickness

10"

Greatest pitch of stays

14.17

Working pressure of plate by rules

230

of tubes

3"

Pitch of tubes

4.13

Material of tube plates

steel

Thickness: Front

16.75

Back

16

Mean pitch of stays

8.26

Working pressure by rules

230

ss wide water spaces

13.78

Working pressures by rules

183

Girders to Chamber tops: Material

steel

Depth and

20.21

Distance apart

8.74

Number and pitch of stays in each

3-748"

Pressure by rules

240

of girder at centre

8.46 x 1.96

Length as per rule

30.4

Steam dome: description of joint to shell

bone

% of strength of joint

-

Diameter

-

Pitch of rivets

-

Pressure of shell by rules

-

of shell plates

-

Description of longitudinal joint

-

Diameter of rivet holes

-

Pitch of rivets

-

How stayed

-

Material

-

Thickness

-

Pressure of shell by rules

-

Crown plates: Thickness

-

How stayed

-

Material

-

Description of longitudinal joint

-

Diameter

-

Pitch of rivets

-

Pressure of shell by rules

-

Crown plates: Thickness

-

How stayed

-

Material

-

Description of longitudinal joint

-

Diameter

-

Pitch of rivets

-

Pressure of shell by rules

-

Crown plates: Thickness

-

How stayed

-

Material

-

Description of longitudinal joint

-

Diameter

-

Pitch of rivets

-

Pressure of shell by rules

-

Crown plates: Thickness

-

How stayed

-

Material

-

Description of longitudinal joint

-

Diameter

-

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 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 17.20

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

Material of Wheel shaft steel Identification Mark on Do. LLOYDS 18.8.20 Material of Thrust shaft steel Identification Mark on Do. LLOYDS 17.20

Material of Tunnel shafts steel Identification Marks on Do. LLOYDS 8'6" 20 Material of Screw shafts steel Identification Marks on Do. LLOYDS 10.12.20

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

Special ... £ 101-2-0

Donkey Boiler Fee ... £ :

Travelling Expenses (if any) £ :

GENOA = £80. 15. 0 - Lit 5870.

When applied for, TRIESTE £20. 4. 0

19

When received, 7-11-21

19

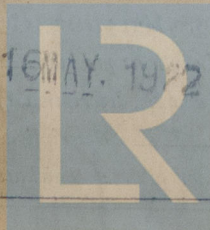
TUE. NOV. 15 1921

Committee's Minute FRI. 22 SEP. 1921

Assigned

+ L.M.B. 7.21
F.D. C.L.

TUE. 16 MAY. 1922



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