

REPORT ON MACHINERY.

No. 72895
WED. 17 MAR. 1920

Received at London Office

Writing Report 15th Mar 1920 When handed in at Local Office 15th Mar 1920 Port of NEWCASTLE-ON-TYNE

Survey held at Jarrow - Gordon Date, First Survey 14th April 1919 Last Survey 4th March 1920
 Book. S. S. Fantee (Number of Visits 5)

on the S. S. Fantee Tons { Gross 5650
 Net 3560

er Built at Newcastle By whom built Northumbrian S.B. Co. When built 1920

nes made at Jarrow on Tyne By whom made Palmers Shipbuilding & Iron Co. when made 1920

rs made at do By whom made do (906) when made 1920

stered Horse Power Owners Eldon Dempster & Co. Port belonging to British

Horse Power as per Section 28 517 Is Refrigerating Machinery fitted for cargo purposes No Is Electric Light fitted Yes

INES, &c.—Description of Engines Triple Expansion No. of Cylinders Three No. of Cranks 3

of Cylinders 27.44" x 73" Length of Stroke 48 Revs. per minute 84 Dia. of Screw shaft as per rule 14.66" Material of screw shaft as fitted 15.2" Steel

e screw shaft fitted with a continuous liner the whole length of the stern tube Yes Is the after end of the liner made water tight

e propeller boss Yes If the liner is in more than one length are the joints burned Yes If the liner does not fit tightly at the part

en the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive Yes If two

s are fitted, is the shaft lapped or protected between the liners Yes Length of stern bush 5-0 1/2"

of Tunnel shaft as per rule 13.33" Dia. of Crank shaft journals as per rule 14 1/2" Dia. of Crank pin 14 1/2" Size of Crank webs 25 x 9 Dia. of thrust shaft under

rs 14 3/4" Dia. of screw 17-9" Pitch of Screw 16-9" No. of Blades 4 State whether moveable No Total surface 93 sq ft

of Feed pumps 2 Diameter of ditto 4" Stroke 24 Can one be overhauled while the other is at work Yes

of Bilge pumps 2 Diameter of ditto 4" Stroke 24 Can one be overhauled while the other is at work Yes

of Donkey Engines 4 Sizes of Pumps 9 1/2" x 18" No. and size of Sections connected to both Bilge and Donkey pumps

Engine Room Five 3 1/2" diameter 10 1/2" x 14 1/2" In Holds, &c. Two 3 1/2" diam in Nos. 1, 2 & 3.

of Bilge Injections 1 sizes 13" Connected to condenser, or to circulating pump Is a separate Donkey Suction fitted in Engine room & size Yes 3 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 and Are they Valves or Cocks Both

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

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

t pipes are carried through the bunkers forward bilge pipes How are they protected Hood boxing

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

e Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Eng. Room top platform

ERS, &c.—(Letter for record S) Manufacturers of Steel Spencer & Lonsdale 3 S.B.

al Heating Surface of Boilers 665 sq ft Is Forced Draft fitted Yes No. and Description of Boilers 3 Single Ended

king Pressure 180 lb per sq in Tested by hydraulic pressure to 360 lb per sq in Date of test 12/9/19 No. of Certificate 9255

each boiler be worked separately Yes Area of fire grate in each boiler 63.3 sq ft No. and Description of Safety Valves to

boiler No, direct spring Area of each valve 9.62 sq in Pressure to which they are adjusted 185 lb per sq in Are they fitted with easing gear Yes

allest distance between boilers or uptakes and bunkers or woodwork 30 Mean dia. of boilers 15.6" Length 11.6" Material of shell plates Steel

a shell plates thickness 1 1/2" Range of tensile strength 28/32 tons Are the shell plates welded or flanged No Descrip. of riveting: cir. seams 2 R. Lap

opening seams 5 rivets Diameter of rivet holes in long. seams 1 5/16" Pitch of rivets 9/5" Lap of plates or width of butt straps 19 1/2"

s to be given percentages of strength of longitudinal joint rivets 58.3 Working pressure of shell by rules 182 lb Size of manhole in shell 16" x 12"

of compensating ring capot No. and Description of Furnaces in each boiler 3 Bightons Material Steel Outside diameter 50 3/16"

th of plain part top 3 1/4" Thickness of plates crown 3 1/4" Description of longitudinal joint Helical No. of strengthening rings 8

king pressure of furnace by the rules 185 Combustion chamber plates: Material Steel Thickness: Sides 23/32" Back 1 1/16" Top 23/32" Bottom 23/32"

of stays to ditto: Sides 1 3/32" x 8 3/8" Back 1 1/4" x 8 3/8" Top 1 5/8" x 9 1/4" If stays are fitted with nuts or riveted heads Nuts inside Working pressure by rules 180

erial of stays Steel Area at smallest part 2.45 sq in Area supported by each stay 95 Working pressure by rules 219 End plates in steam space:

erial Steel Thickness 1 1/32" Pitch of stays 20 1/2" x 21 1/4" How are stays secured Double nuts Working pressure by rules 192 Material of stays Steel

at smallest part 8.45 sq in Area supported by each stay 446 sq in Working pressure by rules 199 Material of Front plates at bottom Steel

thickness 3 1/32" Material of Lower back plate Steel Thickness 27/32" Greatest pitch of stays 13 5/8" x 8 3/8" Working pressure of plate by rules 187

eter of tubes 2 3/4" Pitch of tubes 4" x 3 7/8" Material of tube plate Steel Thickness: Front 3 1/32" Back 3/4" Mean pitch of stays 9 7/8"

h across wide water spaces 13 5/8" Working pressures by rules 181 lb Girders to Chamber tops: Material Steel Depth and

ness of girder at centre 10" x 1 3/4" Length as per rule 35 9/16" Distance apart 10 5/8" Number and pitch of stays in each Three, 9 1/4"

king pressure by rules 187 lb Steam dome: description of joint to shell None % of strength of joint Yes

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

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

ERHEATER. Type None Date of Approval of Plan Tested by Hydraulic Pressure to

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

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

W533-0258

