

REPORT ON MACHINERY.

No. 22752

Received at London Office

TUE MAY 22 1923

Writing Report 16 Apr 1923 When handed in at Local Office 1st May 1923 Port of New York

Survey held at Mobile, Ala. Date, First Survey 9 April Last Survey 28th April 1923

Book. 27 on the steel screw steamer DUNGANNON (Number of Vials 17)

Built at Alameda, Ca. By whom built Bethlehem S. B. Corp. Tons Gross 7257 Net 4485 When built 1920

Made at San Francisco, Ca. By whom made Bethlehem S. B. Corporation when made 1920

Made at Portland, Ore. By whom made Williamette I. & S. Co. when made 1920

Rated Horse Power Owners The Tescos Co. Inc. Port belonging to PORT ARTHUR, TEX.

Horse Power as per Section 28 597 Is Refrigerating Machinery fitted for cargo purposes no Is Electric Light fitted yes.

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

of Cylinders 27-47-78 Length of Stroke 48 Revs. per minute 80 Dia. of Screw shaft as per rule 15.4 as fitted 16.5 Material of screw shaft steel

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

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

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

s are fitted, is the shaft lapped or protected between the liners Length of stern bush 5'-6"

of Tunnel shaft as per rule 14.4 as fitted none Dia. of Crank shaft journals as per rule 15.1 as fitted 15.5 Dia. of Crank pin 15.5 Size of Crank webs 30" x 9.5" Dia. of thrust shaft under

rs 15.5 Dia. of screw 18'-0" Pitch of Screw 17'-1" No. of Blades 4 State whether moveable yes Total surface 106.6 sq ft

of Feed pumps 2 Diameter of ditto 4.5" Stroke 24" Can one be overhauled while the other is at work yes

of Bilge pumps 2 Diameter of ditto 4.5" Stroke 24" Can one be overhauled while the other is at work yes

of Donkey Engines 2 Sizes of Pumps Bilge 6x6x6 Fire 12x8.5x12 No. and size of Suctions connected to both Bilge and Donkey pumps

Engine Room 4-3.5" In Holds, &c. Oil cargo pumping system

of Bilge Injections 1 sizes 10" Connected to condenser or to circulating pump yes Is a separate Donkey Suction fitted in Engine room & size yes 3.5"

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

all connections with the sea direct on the skin of the ship yes Are they Valves or Cocks valves & cocks

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

at pipes are carried through the bunkers oil fuel How are they protected

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

the Screw Shaft Tunnel watertight no tunnel Is it fitted with a watertight door worked from

ILERS, &c.—(Letter for record S.) Manufacturers of Steel Carnegie Steel Co. & Illinois Steel Co.

total Heating Surface of Boilers 8235 sq ft Is Forced Draft fitted yes No. and Description of Boilers 3 Scotch type single ended

orking Pressure 220 lbs Tested by hydraulic pressure to 330 lbs Date of test No. of Certificate

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

ch boiler 2 spring loaded Area of each valve 9.620" Pressure to which they are adjusted 220 lbs. Are they fitted with easing gear yes

allest distance between boilers or uptakes and bunkers or woodwork 9" Mean dia. of boilers 15'-0" Length 11'-9" Material of shell plates steel

ickness 1.6" Range of tensile strength 60/70000 lbs Are the shell plates welded or flanged no Descrip. of riveting: cir. seams Double

ng. seams T. R. D. B. S. Diameter of rivet holes in long. seams 1.9/16" Pitch of rivets 10" Lap of plates or width of butt straps 22.5"

er centages of strength of longitudinal joint rivets 91.5 plate 84.3 Working pressure of shell by rules 236 lbs Size of manhole in shell

ize of compensating ring No. and Description of Furnaces in each boiler 3 Morrison Material steel Outside diameter 48.5"

ength of plain part top bottom Thickness of plates crown 4.3 bottom 4.4 Description of longitudinal joint welded No. of strengthening rings

orking pressure of furnace by the rules 220 Combustion chamber plates: Material steel Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 11/16"

itch of stays to ditto: Sides 6.5/8" x 7.5/8" Back 7.5/8" x 7.5/8" Top 8" x 6.5/8" If stays are fitted with nuts or riveted heads riveted heads Working pressure by rules 225 lbs

aterial of stays steel Area at smallest part 1.750" Area supported by each stay 54.50" Working pressure by rules 250 End plates in steam space:

aterial steel Thickness 1.4" Pitch of stays 17.5/8" x 17.5/8" How are stays secured Double nut Working pressure by rules 240 Material of stays steel

Area at smallest part 6.250" Area supported by each stay 294" Working pressure by rules 290 Material of Front plates at bottom steel

Thickness 1.5/16" Material of Lower back plate steel Thickness 1.6" Greatest pitch of stays 13" x 7.9/16" Working pressure of plate by rules 380

Diameter of tubes 3" Pitch of tubes 4.8" Material of tube plates steel Thickness: Front 1.5/16" x 5/8" double 7/8" Back 7/8" Mean pitch of stays 12.5/8" x 8.5/8"

Pitch across wide water spaces 13" Working pressures by rules 265 lbs Girders to Chamber tops: Material steel Depth and

ickness of girder at centre 12" x 1.5" Length as per rule 2'-10" Distance apart 8" Number and pitch of stays in each 4-6.5/4"

Working pressure by rules 330 lbs Steam dome: description of joint to shell none % 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 none 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

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

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IS A DONKEY BOILER FITTED?

No. ✓

If so, is a report now forwarded? ✓

SPARE GEAR. State the articles supplied:— One pair connecting rod top end bolts + nuts, one pair connecting rod bottom end bolts + nuts, one pair main bearing bolts + nuts, one set of coupling bolts, one set of feed + live pump valves, assorted nuts, bolts + iron. One propeller shaft, two propeller blades.

The foregoing is a correct description,

Manufacturer.

Dates of Survey while building { During progress of work in shops - - } Not built under Special Survey.
{ During erection on board vessel - - - } 1923 Apr 9-10, 11, 12, 13, 14, 16, 18, 19, 20, 21, 23, 24, 25, 26, 27 and 28.
Total No. of visits 17

Is the approved plan of main boiler forwarded herewith yes

" " " donkey " " " ✓

Dates of Examination of principal parts—Cylinders 16.4.23 Slides 16.4.23 Covers 16.4.23 Pistons 16.4.23 Rods 20.4.23

Connecting rods 20.4.23 Crank shaft 23.4.23 Thrust shaft 18.4.23 Tunnel shafts ✓ Screw shaft 10/4/24 Propeller 10/4/24

Stern tube 10/4/24 Steam pipes tested ✓ Engine and boiler seatings 21.4.23 Engines holding down bolts 21.4.23

Completion of pumping arrangements 26.4.23 ✓ Boilers fixed ✓ Engines tried under steam ✓ 27.4.23

Completion of fitting sea connections 10/4/24 Stern tube 10/4/24 Screw shaft and propeller 10/4/24

Main boiler safety valves adjusted 28.4.23 Thickness of adjusting washers Lock nuts fitted

Material of Crank shaft steel Identification Mark on Do. ✓ Material of Thrust shaft steel Identification Mark on Do. ✓

Material of Tunnel shafts ✓ Identification Marks on Do. ✓ Material of Screw shafts steel Identification Marks on Do. ✓

Material of Steam Pipes steel Test pressure

Is an installation fitted for burning oil fuel yes ✓ Is the flash point of the oil to be used over 150°F. yes ✓

Have the requirements of Section 49 of the Rules been complied with yes ✓

Is this machinery duplicate of a previous case no ✓ If so, state name of vessel ✓

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

The machinery of this vessel was not built under Special Survey but it has been examined in accordance with the Rules, & in our opinion, it is now in good & safe working condition, & the workmanship & material are good.

In our opinion, the engines & boilers of this vessel are eligible to receive the notations L.M.C 4.23, FD, & 'FITTED FOR OIL FUEL 4.23 F.P. ABOVE 150°F' in the Register Book

The amount of Entry Fee ... £ Charged : When applied for, 19
Special ... £ on Hull :
Donkey Boiler Fee ... £ report. : When received, 19
Travelling Expenses (if any) £ :

John S. Heck. J. H. Osborn.
Engineer Surveyor to Lloyd's Register of Shipping.

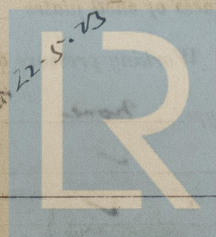
Committee's Minute

New York MAY 8, 1923

Assigned

L.M.C-4.23

Fitted for oil fuel 4.23 F.P. above 150°F
TS-4.23



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