

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. 7 on the steel screw steamer DUNGANNON (Number of Voids 17)
 Built at Alameda, Ca. By whom built Bethlehem S. B. Corp. Tons { Gross 7257
 Net 4485
 When built 1920
 Made at San Francisco, Cal. 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 597 Owners The Texas 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.

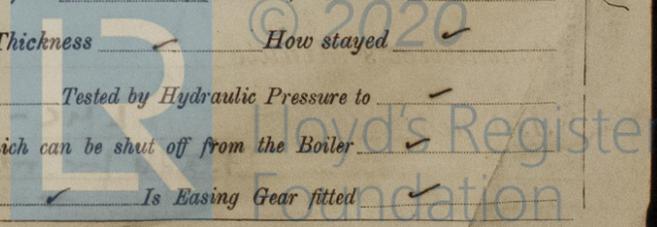
ENGINES, &c.—Description of Engines Triple expansion No. of Cylinders 3 No. of Cranks 3
 of Cylinders 27-47-78 Length of Stroke 48 Revs. per minute 80 Dia. of Screw shaft 15.4 Material of steel
 as fitted 16.5 screw shaft)
 screw shaft fitted with a continuous liner the whole length of the stern tube 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 no 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 no If two
 are fitted, is the shaft lapped or protected between the liners no Length of stern bush 5'-6"
 of Tunnel shaft 14.4 Dia. of Crank shaft journals 15.1 Dia. of Crank pin 15.2 Size of Crank webs 30" x 9.5" Dia. of thrust shaft under
 as fitted none as fitted 15.2
 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 Bell & Howland 12" x 8.5" x 12" 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 no
 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 no
 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 yes worked from no

BOILERS, &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
 Working Pressure 220 lbs Tested by hydraulic pressure to 330 lbs Date of test no No. of Certificate no
 in each boiler be worked separately yes Area of fire grate in each boiler no No. and Description of Safety Valves to
 each 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
 smallest distance between boilers or uptakes and bunkers or woodwork 9" Mean dia. of boilers 15'-0" Length 11'-9" Material of shell plates steel
 thickness 1 1/16" Range of tensile strength 60/70000 lbs Are the shell plates welded or flanged no Descrip. of riveting: cir. seams Double
 long. seams T. R. D. B. S. Diameter of rivet holes in long. seams 1 1/16" Pitch of rivets 10" Lap of plates or width of butt straps 22 3/8"
 percentages of strength of longitudinal joint 91.5 Working pressure of shell by rules 236 lbs Size of manhole in shell no
 size of compensating ring no No. and Description of Furnaces in each boiler 3 Morrison Material steel Outside diameter 48 3/32"
 length of plain part no Thickness of plates 4.3" Description of longitudinal joint welded No. of strengthening rings no
 Working pressure of furnace by the rules 220 Combustion chamber plates: Material steel Thickness: Sides 11/16" Back 11/16" Top 11/16" Bottom 15/16"
 pitch of stays to ditto: Sides 6 3/8" x 7 3/8" Back 7 1/4" x 7 3/8" Top 8" x 6 3/4" If stays are fitted with nuts or riveted heads riveted heads Working pressure by rules 225 lbs
 Material 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:
 Material steel Thickness 1 1/4" Pitch of stays 17 1/8" x 17 1/8" How are stays secured Double nut Working pressure by rules 240 Material of stays steel
 Area at smallest part 8.250" Area supported by each stay 294" Working pressure by rules 290 Material of Front plates at bottom steel
 Thickness 15/16" Material of Lower back plate steel Thickness 13 + 1/8 double Greatest pitch of stays 13" x 7 9/16" Working pressure of plate by rules 380
 Diameter of tubes 3" Pitch of tubes 4 1/8" Material of tube plates steel Thickness: Front 15/16 + 5/8 double Back 7/8" Mean pitch of stays 12 3/8" x 8 1/4"
 Pitch across wide water spaces 13" Working pressures by rules 265 lbs Girders to Chamber tops: Material steel Depth and
 thickness of girder at centre 12" x 12" Length as per rule 2'-10" Distance apart 8" Number and pitch of stays in each 4-6 3/4"
 Working pressure by rules 330 lbs Steam dome: description of joint to shell none % of strength of joint no
 Diameter no Thickness of shell plates no Material no Description of longitudinal joint no Diam. of rivet holes no
 Pitch of rivets no Working pressure of shell by rules no Crown plates no Thickness no How stayed no

SUPERHEATER. Type none Date of Approval of Plan no Tested by Hydraulic Pressure to no
 Date of Test no Is a Safety Valve fitted to each Section of the Superheater which can be shut off from the Boiler no
 Diameter of Safety Valve no Pressure to which each is adjusted no Is Easing Gear fitted no

THE SURVEYORS ARE REQUESTED NOT TO WRITE ACROSS THE MARGIN.

007626-007638-0016



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 + bilge 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

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

New York

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

John S. Heck, Engineer, Surveyor to Lloyd's Register of Shipping.

Committee's Minute

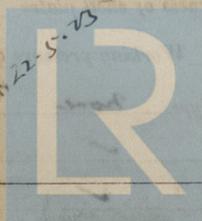
New York MAY 8, 1923

Assigned

LMC-4.23

Fitted for oil fuel 4.23 F above 150°F

TS-4.23



© 2020

Lloyd's Register Foundation

CERTIFICATE WRITTEN 22-5-23

Certificate (if required) to be sent to

The Surveyor are requested not to write on or below the space for Committee's Minute.