

Rpt. 4.

REC'D NEW YORK July 16-1920
REPORT ON MACHINERY

No. 139

Jul No. 1807

Received at London Office

WED. AUG. 4 1920

Date of writing Report Oct 25 1919 When handed in at Local Office Oct 28 1919 Port of TORONTO

No. in Survey held at GALT, ONT. Date First Survey MCH. 18. 1919 Last Survey Oct. 20. 1919
Reg. Book. 31867 on the S.S. No. 6 (TIDEWATER SHIPBUILDERS) DAVIE No 459. (Number of Visits 16 May 13 Gross 3599 Tons Net 2183)

Master J. E. Faulkner Built at THREE RIVERS By whom built TIDEWATER SHIPBUILDERS When built 1919

Engines made at GALT, ONT. By whom made GOLDIE & McCULLOCH CO LTD when made 1919

Boilers made at Montréal By whom made Dominion Bridge Co. Ltd when made 1919

Registered Horse Power 226.5 Owners Canadian Govt Merchant Marine Port belonging to Montréal

Nom. Horse Power as per Section 28 470 Is Refrigerating Machinery fitted for cargo purposes No. Is Electric Light fitted YES.

ENGINES, &c.—Description of Engines INVERTED TRIPLE EXPANSION No. of Cylinders 3 No. of Cranks 3

Dia. of Cylinders 25. 41. 68 Length of Stroke 45 Revs. per minute as per rule 13.76 Dia. of Screw shaft as fitted 14.00 Material of screw shaft O. H. S.

Is the 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 in the 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 between the bearings in the stern tube, is the space charged with a plastic material insoluble in water and non-corrosive ✓ If two liners are fitted, is the shaft lapped or protected between the liners ✓ Length of stern bush 5-5

Dia. of Tunnel shaft as per rule 12.4 Dia. of Crank shaft journals as per rule 13.03 Dia. of Crank pin 13.25 Size of Crank webs 25.5 x 8.75 Dia. of thrust shaft under collars 13.25 Dia. of screw 16-6 Pitch of Screw 15.9 No. of Blades 4 State whether moveable No Total surface 84.5

No. of Feed pumps 2 Diameter of ditto 3.5 Stroke 24 Can one be overhauled while the other is at work YES

No. of Bilge pumps 2 Diameter of ditto 3.5 Stroke 24 Can one be overhauled while the other is at work YES

No. of Donkey Engines 3 Sizes of Pumps and fuel 2-9 1/2 x 7 x 18 1/2 x 14 x 18 No. and size of Suctions connected to both Bilge and Donkey pumps

In Engine Room 4-3" 1-3 1/2" In Holds, &c. BALLAST, Fuel Tank 1-3 1/2" No. 1 tank 1-4" No. 2 tank 3-4" No. 3 tank 2-3 1/2" No. 4 tank 3-4" No. 5 tank 1-3 1/2" No. 6 tank 1-3 1/2" No. 7 tank 1-3 1/2" No. 8 tank 1-3 1/2" No. 9 tank 1-3 1/2" No. 10 tank 1-3 1/2" No. 11 tank 1-3 1/2" No. 12 tank 1-3 1/2" No. 13 tank 1-3 1/2" No. 14 tank 1-3 1/2" No. 15 tank 1-3 1/2" No. 16 tank 1-3 1/2" No. 17 tank 1-3 1/2" No. 18 tank 1-3 1/2" No. 19 tank 1-3 1/2" No. 20 tank 1-3 1/2" No. 21 tank 1-3 1/2" No. 22 tank 1-3 1/2" No. 23 tank 1-3 1/2" No. 24 tank 1-3 1/2" No. 25 tank 1-3 1/2" No. 26 tank 1-3 1/2" No. 27 tank 1-3 1/2" No. 28 tank 1-3 1/2" No. 29 tank 1-3 1/2" No. 30 tank 1-3 1/2" No. 31 tank 1-3 1/2" No. 32 tank 1-3 1/2" No. 33 tank 1-3 1/2" No. 34 tank 1-3 1/2" No. 35 tank 1-3 1/2" No. 36 tank 1-3 1/2" No. 37 tank 1-3 1/2" No. 38 tank 1-3 1/2" No. 39 tank 1-3 1/2" No. 40 tank 1-3 1/2" No. 41 tank 1-3 1/2" No. 42 tank 1-3 1/2" No. 43 tank 1-3 1/2" No. 44 tank 1-3 1/2" No. 45 tank 1-3 1/2" No. 46 tank 1-3 1/2" No. 47 tank 1-3 1/2" No. 48 tank 1-3 1/2" No. 49 tank 1-3 1/2" No. 50 tank 1-3 1/2" No. 51 tank 1-3 1/2" No. 52 tank 1-3 1/2" No. 53 tank 1-3 1/2" No. 54 tank 1-3 1/2" No. 55 tank 1-3 1/2" No. 56 tank 1-3 1/2" No. 57 tank 1-3 1/2" No. 58 tank 1-3 1/2" No. 59 tank 1-3 1/2" No. 60 tank 1-3 1/2" No. 61 tank 1-3 1/2" No. 62 tank 1-3 1/2" No. 63 tank 1-3 1/2" No. 64 tank 1-3 1/2" No. 65 tank 1-3 1/2" No. 66 tank 1-3 1/2" No. 67 tank 1-3 1/2" No. 68 tank 1-3 1/2" No. 69 tank 1-3 1/2" No. 70 tank 1-3 1/2" No. 71 tank 1-3 1/2" No. 72 tank 1-3 1/2" No. 73 tank 1-3 1/2" No. 74 tank 1-3 1/2" No. 75 tank 1-3 1/2" No. 76 tank 1-3 1/2" No. 77 tank 1-3 1/2" No. 78 tank 1-3 1/2" No. 79 tank 1-3 1/2" No. 80 tank 1-3 1/2" No. 81 tank 1-3 1/2" No. 82 tank 1-3 1/2" No. 83 tank 1-3 1/2" No. 84 tank 1-3 1/2" No. 85 tank 1-3 1/2" No. 86 tank 1-3 1/2" No. 87 tank 1-3 1/2" No. 88 tank 1-3 1/2" No. 89 tank 1-3 1/2" No. 90 tank 1-3 1/2" No. 91 tank 1-3 1/2" No. 92 tank 1-3 1/2" No. 93 tank 1-3 1/2" No. 94 tank 1-3 1/2" No. 95 tank 1-3 1/2" No. 96 tank 1-3 1/2" No. 97 tank 1-3 1/2" No. 98 tank 1-3 1/2" No. 99 tank 1-3 1/2" No. 100 tank 1-3 1/2"

No. of Bilge Injections 1 sizes 8" Connected to condenser, or to circulating pump Yes Is a separate Donkey Suction fitted in Engine room & size 1-7"

Are 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

Are all connections with the sea direct on the skin of the ship Yes Are they Valves or Cocks Both

Are 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

Are 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

What pipes are carried through the bunkers None How are they protected ✓

Are all Pipes, Cocks, Valves, and Pumps in connection with the machinery and all boiler mountings accessible at all times Yes

Are the Bilge Suction Pipes, Cocks, and Valves arranged so as to prevent any communication between the sea and the bilges Yes

Is the Screw Shaft Tunnel watertight Yes Is it fitted with a watertight door Yes worked from Main deck level

BOILERS, &c.—(Letter for record S) Manufacturers of Steel 38 B.

Total Heating Surface of Boilers 7275 Is Forced Draft fitted YES No. and Description of Boilers 3 CYLINDRICAL MULTITUBULAR

Working Pressure 180 Tested by hydraulic pressure to ✓ Date of test ✓ No. of Certificate ✓

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

Area of each valve ✓ Pressure to which they are adjusted ✓ Are they fitted with easing gear ✓

Smallest distance between boilers or uptakes and bunkers or woodwork ✓ Mean dia. of boilers ✓ Length ✓ Material of shell plates ✓

Thickness ✓ Range of tensile strength ✓ Are the shell plates welded or flanged ✓ Descrip. of riveting: cir. seams ✓

long. seams ✓ Diameter of rivet holes in long. seams ✓ Pitch of rivets ✓ Lap of plates or width of butt straps ✓

Per centages of strength of longitudinal joint ✓ Working pressure of shell by rules ✓ Size of manhole in shell ✓

Size of compensating ring ✓ No. and Description of Furnaces in each boiler ✓ Material ✓ Outside diameter ✓

Length of plain part ✓ Thickness of plates ✓ Description of longitudinal joint ✓ No. of strengthening rings ✓

Working pressure of furnace by the rules ✓ Combustion chamber plates: Material ✓ Thickness ✓ Sides ✓ Back ✓ Top ✓ Bottom ✓

Pitch of stays to ditto: Sides ✓ Back ✓ Top ✓ If stays are fitted with nuts or riveted heads ✓ Working pressure by rules ✓

Material of stays ✓ Area at smallest part ✓ Area supported by each stay ✓ Working pressure by rules ✓ End plates in steam space: ✓

Material ✓ Thickness ✓ Pitch of stays ✓ How are stays secured ✓ Working pressure by rules ✓ Material of stays ✓

Area at smallest part ✓ Area supported by each stay ✓ Working pressure by rules ✓ Material of Front plates at bottom ✓

Thickness ✓ Material of Lower back plate ✓ Thickness ✓ Greatest pitch of stays ✓ Working pressure of plate by rules ✓

Diameter of tubes ✓ Pitch of tubes ✓ Material of tube plates ✓ Thickness: Front ✓ Back ✓ Mean pitch of stays ✓

Pitch across wide water space ✓ Working pressures by rules ✓ Girders to Chamber tops: Material ✓ Depth and ✓

thickness of girder at centre ✓ Length as per rule ✓ Distance apart ✓ Number and pitch of stays in each ✓

Working pressure by rules ✓ Steam dome: description of joint to shell ✓ % 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 ✓

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 ✓

014935-014945-0171

If so, is a report now forwarded?

The foregoing is a correct description,
The Goldie & McCulloch Co., Limited

Per

Manufacturer.

Dates of Examination of principal parts—Cylinders 24. 9. 19 Slides 24. 9. 19 Covers 24. 9. 19 Pistons 29. 8. 19 Rods 29. 8. 19 of 1
Connecting rods 29. 8. 19 Crank shaft 20. 10. 19 Thrust shaft 20. 10. 19 Tunnel shafts 24. 9. 19 Screw shaft 14. 8. 19 Propeller 2
Stern tube 16. 7. 19 Steam pipes tested Engine and boiler seatings 22-12-19 Engines holding down bolts 22-12-19er
Completion of pumping arrangements June 21-1920 Boilers fixed Dec. 22-12-19 Engines tried under steam June 18. 1920 ripte
Completion of fitting sea connections Oct. 8. 1919 Stern tube Sept. 27. 1919 Screw shaft and propeller Oct. 1. 1919 es :
Main boiler safety valves adjusted July 3. 1920 Thickness of adjusting washers P. $\frac{13}{32}$ S. $\frac{35}{64}$ PORT BLR CENTRE BLR STARD BLR. 9x
Material of Crank shaft O. H. S. Identification Mark on Do. 1519. 20. 10. 19 Material of Thrust shaft O. H. S. Identification Mark on Do. 1820. 20. 10. 19 llet
Material of Tunnel shafts O. H. S. Identification Marks on Do. 1500-1-2-3-4 Material of Screw shafts O. H. S. Identification Marks on Do. 988. 14. 8. 19 of
Material of Steam Pipes Steel & copper Test pressure 540 lbs & 360 lbs ✓ sup

Is an installation fitted for burning oil fuel No

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 duplicate of a previous case YES If so, state name of vessel TIDEWATER HULL No 5.

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

THIS MACHINERY HAS BEEN CONSTRUCTED UNDER SPECIAL SURVEY

THE MATERIAL AND KURSKMANSHIP IS GOOD

IT WILL BE ELIGIBLE FOR RECORD WITH DATE WHEN SURVEY IS COMPLETED.

TO COMPLETE:- MACHINERY TO BE FITTED AND SECURED ON BOARD. WITH AUXILIARIES & CONNECTIONS ACCORDING TO RULES

This Machinery has been fitted on board and tried out under full working conditions together with all the auxiliary machinery with satisfactory results.

From my opinion the machinery of this vessel is in good and efficient condition eligible to be classed in the Register Book of the Society and to have the record of L. M. C. 6-20

It is submitted that
this vessel is eligible for
THE RECORD, + LMC.

7.20 FII

R.M.

982

R. L. Alderson

Alexander Scott

Engineer Surveyor to Lloyd's Register of Shipping.

The amount of Entry Fee	... £ <u>815⁰⁰</u>	:	When applied for, <u>June 21. 1920</u>
Special	... £ <u>72⁵⁰</u>	:	<u>OCT 28</u> 19 <u>19</u>
Donkey Boiler Fee	... £ <u>120⁰⁰</u>	:	When received,
Travelling Expenses (if any)	£ <u>44⁶⁵</u>	:	19

Committee's Minute

Assigned

FRI. AUG. 13 1920

FRI AUG 15 1912
+ v. MC 7:20 P. 8

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Lloyd's Register
Foundation