

REPORT ON MACHINERY.

No. 33900

Received at London Office

WED. APR. 29. 1914

of writing Report 16-4-1914 When handed in at Local Office 25-4-1914 Port of **GLASGOW**
 in Survey held at **Glasgow** Date, First Survey 10-6-13 Last Survey 22-4-1914
 on the **S/S "Oranian"** (Number of Visits 57) Tons { Gross 3942 Net 2448
 Master **R. P. Gettins** Built at **Glasgow** By whom built **Hapier Miller** When built 1914
 Engines made at **Glasgow** By whom made **Dunsmuir Jackson (443)** when made 1914
 Milers made at **ditto** By whom made **ditto** when made 1914
 Registered Horse Power Owners **F. Leyland & Co.** Port belonging to **Liverpool**
 m. Horse Power as per Section 28 **449** Is Refrigerating Machinery fitted for cargo purposes **No** Is Electric Light fitted **Yes**

GINES, &c.—Description of Engines **Triple Expansion** No. of Cylinders **3** No. of Cranks **3**
 a. of Cylinders **25 1/2 - 42 1/2 - 72** Length of Stroke **48** Revs. per minute **72** Dia. of Screw shaft as per rule **14 5/8** Material of screw shaft **S**
 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
 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
 ers are fitted, is the shaft lapped or protected between the liners **—** Length of stern bush **5-3**
 ia. of Tunnel shaft as per rule **13 3/8** Dia. of Crank shaft journals as per rule **14 05/9** Dia. of Crank pin **15** Size of Crank webs **2-5 9/4** Dia. of thrust shaft under
 lars **15** Dia. of screw **14 3** Pitch of Screw **18-6** No. of Blades **4** State whether moveable **Yes** Total surface **92 1/4**
 o. of Feed pumps **2** Diameter of ditto **4 1/4** Stroke **26** Can one be overhauled while the other is at work **Yes**
 o. of Bilge pumps **2** Diameter of ditto **4 1/4** Stroke **26** Can one be overhauled while the other is at work **Yes**
 o. of Donkey Engines **4** Sizes of Pumps **2 1/2 Ball 9 1/2 10 1/2 16 1/2 24 1/2 36 1/2 48 1/2 60 1/2 72 1/2 84 1/2 96 1/2 108 1/2 120 1/2 132 1/2 144 1/2 156 1/2 168 1/2 180 1/2 192 1/2 204 1/2 216 1/2 228 1/2 240 1/2 252 1/2 264 1/2 276 1/2 288 1/2 300 1/2 312 1/2 324 1/2 336 1/2 348 1/2 360 1/2 372 1/2 384 1/2 396 1/2 408 1/2 420 1/2 432 1/2 444 1/2 456 1/2 468 1/2 480 1/2 492 1/2 504 1/2 516 1/2 528 1/2 540 1/2 552 1/2 564 1/2 576 1/2 588 1/2 600 1/2 612 1/2 624 1/2 636 1/2 648 1/2 660 1/2 672 1/2 684 1/2 696 1/2 708 1/2 720 1/2 732 1/2 744 1/2 756 1/2 768 1/2 780 1/2 792 1/2 804 1/2 816 1/2 828 1/2 840 1/2 852 1/2 864 1/2 876 1/2 888 1/2 900 1/2 912 1/2 924 1/2 936 1/2 948 1/2 960 1/2 972 1/2 984 1/2 996 1/2 1008 1/2 1020 1/2 1032 1/2 1044 1/2 1056 1/2 1068 1/2 1080 1/2 1092 1/2 1104 1/2 1116 1/2 1128 1/2 1140 1/2 1152 1/2 1164 1/2 1176 1/2 1188 1/2 1200 1/2 1212 1/2 1224 1/2 1236 1/2 1248 1/2 1260 1/2 1272 1/2 1284 1/2 1296 1/2 1308 1/2 1320 1/2 1332 1/2 1344 1/2 1356 1/2 1368 1/2 1380 1/2 1392 1/2 1404 1/2 1416 1/2 1428 1/2 1440 1/2 1452 1/2 1464 1/2 1476 1/2 1488 1/2 1500 1/2 1512 1/2 1524 1/2 1536 1/2 1548 1/2 1560 1/2 1572 1/2 1584 1/2 1596 1/2 1608 1/2 1620 1/2 1632 1/2 1644 1/2 1656 1/2 1668 1/2 1680 1/2 1692 1/2 1704 1/2 1716 1/2 1728 1/2 1740 1/2 1752 1/2 1764 1/2 1776 1/2 1788 1/2 1800 1/2 1812 1/2 1824 1/2 1836 1/2 1848 1/2 1860 1/2 1872 1/2 1884 1/2 1896 1/2 1908 1/2 1920 1/2 1932 1/2 1944 1/2 1956 1/2 1968 1/2 1980 1/2 1992 1/2 2004 1/2 2016 1/2 2028 1/2 2040 1/2 2052 1/2 2064 1/2 2076 1/2 2088 1/2 2100 1/2 2112 1/2 2124 1/2 2136 1/2 2148 1/2 2160 1/2 2172 1/2 2184 1/2 2196 1/2 2208 1/2 2220 1/2 2232 1/2 2244 1/2 2256 1/2 2268 1/2 2280 1/2 2292 1/2 2304 1/2 2316 1/2 2328 1/2 2340 1/2 2352 1/2 2364 1/2 2376 1/2 2388 1/2 2400 1/2 2412 1/2 2424 1/2 2436 1/2 2448 1/2 2460 1/2 2472 1/2 2484 1/2 2496 1/2 2508 1/2 2520 1/2 2532 1/2 2544 1/2 2556 1/2 2568 1/2 2580 1/2 2592 1/2 2604 1/2 2616 1/2 2628 1/2 2640 1/2 2652 1/2 2664 1/2 2676 1/2 2688 1/2 2700 1/2 2712 1/2 2724 1/2 2736 1/2 2748 1/2 2760 1/2 2772 1/2 2784 1/2 2796 1/2 2808 1/2 2820 1/2 2832 1/2 2844 1/2 2856 1/2 2868 1/2 2880 1/2 2892 1/2 2904 1/2 2916 1/2 2928 1/2 2940 1/2 2952 1/2 2964 1/2 2976 1/2 2988 1/2 3000 1/2 3012 1/2 3024 1/2 3036 1/2 3048 1/2 3060 1/2 3072 1/2 3084 1/2 3096 1/2 3108 1/2 3120 1/2 3132 1/2 3144 1/2 3156 1/2 3168 1/2 3180 1/2 3192 1/2 3204 1/2 3216 1/2 3228 1/2 3240 1/2 3252 1/2 3264 1/2 3276 1/2 3288 1/2 3300 1/2 3312 1/2 3324 1/2 3336 1/2 3348 1/2 3360 1/2 3372 1/2 3384 1/2 3396 1/2 3408 1/2 3420 1/2 3432 1/2 3444 1/2 3456 1/2 3468 1/2 3480 1/2 3492 1/2 3504 1/2 3516 1/2 3528 1/2 3540 1/2 3552 1/2 3564 1/2 3576 1/2 3588 1/2 3600 1/2 3612 1/2 3624 1/2 3636 1/2 3648 1/2 3660 1/2 3672 1/2 3684 1/2 3696 1/2 3708 1/2 3720 1/2 3732 1/2 3744 1/2 3756 1/2 3768 1/2 3780 1/2 3792 1/2 3804 1/2 3816 1/2 3828 1/2 3840 1/2 3852 1/2 3864 1/2 3876 1/2 3888 1/2 3900 1/2 3912 1/2 3924 1/2 3936 1/2 3948 1/2 3960 1/2 3972 1/2 3984 1/2 3996 1/2 4008 1/2 4020 1/2 4032 1/2 4044 1/2 4056 1/2 4068 1/2 4080 1/2 4092 1/2 4104 1/2 4116 1/2 4128 1/2 4140 1/2 4152 1/2 4164 1/2 4176 1/2 4188 1/2 4200 1/2 4212 1/2 4224 1/2 4236 1/2 4248 1/2 4260 1/2 4272 1/2 4284 1/2 4296 1/2 4308 1/2 4320 1/2 4332 1/2 4344 1/2 4356 1/2 4368 1/2 4380 1/2 4392 1/2 4404 1/2 4416 1/2 4428 1/2 4440 1/2 4452 1/2 4464 1/2 4476 1/2 4488 1/2 4500 1/2 4512 1/2 4524 1/2 4536 1/2 4548 1/2 4560 1/2 4572 1/2 4584 1/2 4596 1/2 4608 1/2 4620 1/2 4632 1/2 4644 1/2 4656 1/2 4668 1/2 4680 1/2 4692 1/2 4704 1/2 4716 1/2 4728 1/2 4740 1/2 4752 1/2 4764 1/2 4776 1/2 4788 1/2 4800 1/2 4812 1/2 4824 1/2 4836 1/2 4848 1/2 4860 1/2 4872 1/2 4884 1/2 4896 1/2 4908 1/2 4920 1/2 4932 1/2 4944 1/2 4956 1/2 4968 1/2 4980 1/2 4992 1/2 5004 1/2 5016 1/2 5028 1/2 5040 1/2 5052 1/2 5064 1/2 5076 1/2 5088 1/2 5100 1/2 5112 1/2 5124 1/2 5136 1/2 5148 1/2 5160 1/2 5172 1/2 5184 1/2 5196 1/2 5208 1/2 5220 1/2 5232 1/2 5244 1/2 5256 1/2 5268 1/2 5280 1/2 5292 1/2 5304 1/2 5316 1/2 5328 1/2 5340 1/2 5352 1/2 5364 1/2 5376 1/2 5388 1/2 5400 1/2 5412 1/2 5424 1/2 5436 1/2 5448 1/2 5460 1/2 5472 1/2 5484 1/2 5496 1/2 5508 1/2 5520 1/2 5532 1/2 5544 1/2 5556 1/2 5568 1/2 5580 1/2 5592 1/2 5604 1/2 5616 1/2 5628 1/2 5640 1/2 5652 1/2 5664 1/2 5676 1/2 5688 1/2 5700 1/2 5712 1/2 5724 1/2 5736 1/2 5748 1/2 5760 1/2 5772 1/2 5784 1/2 5796 1/2 5808 1/2 5820 1/2 5832 1/2 5844 1/2 5856 1/2 5868 1/2 5880 1/2 5892 1/2 5904 1/2 5916 1/2 5928 1/2 5940 1/2 5952 1/2 5964 1/2 5976 1/2 5988 1/2 6000 1/2 6012 1/2 6024 1/2 6036 1/2 6048 1/2 6060 1/2 6072 1/2 6084 1/2 6096 1/2 6108 1/2 6120 1/2 6132 1/2 6144 1/2 6156 1/2 6168 1/2 6180 1/2 6192 1/2 6204 1/2 6216 1/2 6228 1/2 6240 1/2 6252 1/2 6264 1/2 6276 1/2 6288 1/2 6300 1/2 6312 1/2 6324 1/2 6336 1/2 6348 1/2 6360 1/2 6372 1/2 6384 1/2 6396 1/2 6408 1/2 6420 1/2 6432 1/2 6444 1/2 6456 1/2 6468 1/2 6480 1/2 6492 1/2 6504 1/2 6516 1/2 6528 1/2 6540 1/2 6552 1/2 6564 1/2 6576 1/2 6588 1/2 6600 1/2 6612 1/2 6624 1/2 6636 1/2 6648 1/2 6660 1/2 6672 1/2 6684 1/2 6696 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10632 1/2 10644 1/2 10656 1/2 10668 1/2 10680 1/2 10692 1/2 10704 1/2 10716 1/2 10728 1/2 10740 1/2 10752 1/2 10764 1/2 10776 1/2 10788 1/2 10800 1/2 10812 1/2 10824 1/2 10836 1/2 10848 1/2 10860 1/2 10872 1/2 10884 1/2 10896 1/2 10908 1/2 10920 1/2 10932 1/2 10944 1/2 10956 1/2 10968 1/2 10980 1/2 10992 1/2 11004 1/2 11016 1/2 11028 1/2 11040 1/2 11052 1/2 11064 1/2 11076 1/2 11088 1/2 11100 1/2 11112 1/2 11124 1/2 11136 1/2 11148 1/2 11160 1/2 11172 1/2 11184 1/2 11196 1/2 11208 1/2 11220 1/2 11232 1/2 11244 1/2 11256 1/2 11268 1/2 11280 1/2 11292 1/2 11304 1/2 11316 1/2 11328 1/2 11340 1/2 11352 1/2 11364 1/2 11376 1/2 11388 1/2 11400 1/2 11412 1/2 11424 1/2 11436 1/2 11448 1/2 11460 1/2 11472 1/2 11484 1/2 11496 1/2 11508 1/2 11520 1/2 11532 1/2 11544 1/2 11556 1/2 11568 1/2 11580 1/2 11592 1/2 11604 1/2 11616 1/2 11628 1/2 11640 1/2 11652 1/2 11664 1/2 11676 1/2 11688 1/2 11700 1/2 11712 1/2 11724 1/2 11736 1/2 11748 1/2 11760 1/2 11772 1/2 11784 1/2 11796 1/2 11808 1/2 11820 1/2 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VERTICAL DONKEY BOILER—

Manufacturers of Steel

No.	Description	Made at	By whom made	When made	Where fixed
Working pressure	tested by hydraulic pressure to	Date of test	No. of Certificate	Fire grate area	Description of Saf
Valves	No. of Safety Valves	Area of each	Pressure to which they are adjusted	Date of adjustment	
If fitted with easing gear	If steam from main boilers can enter the donkey boiler	Dia. of donkey boiler	Length		
Material of shell plates	Thickness	Range of tensile strength	Descrip. of riveting long. seams		
Dia. of rivet holes	Whether punched or drilled	Pitch of rivets	Lap of plating	Per centage of strength of joint	Rivets Plates
Working pressure of shell by rules	Thickness of shell crown plates	Radius of do.	No. of stays to do.	Dia. of stays	
Diameter of furnace Top	Bottom	Length of furnace	Thickness of furnace plates	Description of joint	
Working pressure of furnace by rules	Thickness of furnace crown plates	Radius of do.	Stayed by		
Diameter of uptake	Thickness of uptake plates	Thickness of water tubes	Dates of survey		

SPARE GEAR. State the articles supplied:—

2 Connecting Rod bolts, 1 set for bottom end, 1 set for top end. 2 Main Bearing Bolts
1 set of coupling bolts 1 set of Feed, Bilge Pump, Valves 1 set of Piston Rings a Quantity
of assorted bolts, nuts, washers of various sizes.

The foregoing is a correct description,

James Fletcher Manufacturer.

Dates of Survey while building
During progress of work in shops -- 1914 June 10-16-24 July 16-21 Aug 6-11-26 Sept 7-8-12-18-22 Oct 2-9-14-20-21 Nov 3-10-14-19-20-2
During erection on board vessel -- 1914 Jan 9-14-19-21-26-27-28-30 Feb 6-12-25 Mar 3-4-5-13-17-18-25-27 Apr 3-6-9-10-22
Total No. of visits 54

Is the approved plan of main boiler forwarded herewith *yes*
" " " donkey " " " *no*

Dates of Examination of principal parts—Cylinders 20. 11. 13 Slides 20. 11. 13 Covers 24. 12. 13 Pistons 20. 11. 13 Rods 31. 10. 13
Connecting rods 20. 10. 13 Crank shaft 9. 10. 13 Thrust shaft 11. 8. 13 Tunnel shafts 10. 11. 13 Screw shaft 14. 1. 14 Propeller 14. 1. 14
Stern tube 2. 12. 13 Steam pipes tested 6. 2. 14 Engine and boiler seatings 4. 3. 14 Engines holding down bolts 3. 4. 14
Completion of pumping arrangements 3. 4. 14 Boilers fixed 17. 3. 14 Engines tried under steam 22. 4. 14
Main boiler safety valves adjusted 3. 4. 14 Thickness of adjusting washers A 7/16 F 3/8 A 3/8 F 3/8 F 3/8 A 7/16
Material of Crank shaft Identification Mark on Do. LLOYDS Material of Thrust shaft Identification Mark on Do. LLOYDS
Material of Tunnel shafts Identification Marks on Do. W.G.M. Material of Screw shafts Identification Marks on Do. W.G.M.
Material of Steam Pipes Iron Test pressure 600 lbs

General Remarks (State quality of workmanship, opinions as to class, &c.) These Engines & Boilers have
been built under special survey in accordance
with the approved plan & the workmanship &
material are of good quality
The Machinery is eligible in my opinion for
the Record of LMC 4-14

It is submitted that
this vessel is eligible for
THE RECORD, + LMC 4. 14.

The amount of Entry Fee .. £ 3 : - : When applied for, 25/4/14
Special .. £ 42. 9 : :
Donkey Boiler Fee .. £ : : :
Travelling Expenses (if any) £ : : : 28/4/14

W. Gordon Muelken
Engineer Surveyor to Lloyd's Register of British & Foreign Shipping.

Committee's Minute GLASGOW 28 APR 1914

Assigned + L.M.C. 4, 14.

These partic

Signal Letters

Official Num

135,57

No., Date, and Por

Whether British or Foreign Built.

British

Number of Decks

Number of Masts

Rigged ...

Stern ...

Build ...

Galleries ...

Head ...

Framework and

vessel ...

Number of Bulk

Number of water

and their capac

Total to quarter the dept

to bottom of keel ...

No. of sets of Engines.

Description

one Direct

triple co

No. of Shafts.

Particu

Description

Number ...

Iron or Steel

Loaded Pres

G

Under Tonnage I

Space or spaces b

Turret or Trunk

Forecastle ...

Bridge space

Poop or Break

Side Houses

Deck Houses

Chart House

Spaces for mach

Section 78 (2)

1894 ...

Excess of Hatch

Gross T

Deductions, as p

Register

NOTE 1.—The tonna

Deck for

NOTE 2.—The unde

Name o

No. of Owners

Name, Residen

Frede

place of

mana

Dated 180

(830), (69862) Wt.

GLASGOW

Certificate (if required) to be sent to
(The Surveyors are requested not to write on or below the space for Committee's Minute.)

24/4
25/4/14



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Lloyd's Register
Foundation