

Lloyd's Register of Shipping.

(Report on Machinery, No. 10517 Port Middlesbrough)No. ✓ ENGINE FORGINGS OR CASTINGS.

I have to report that the ~~Iron or~~ Steel Forgings or ~~Castings~~, as herein described, ^{Finished} ~~manufactured~~ by Messrs Blair & Co Ltd of Stockton for the Engines No. 1906 being constructed by Messrs Blair & Co Ltd of Stockton for the Ship No. 219, being built by (S. S. Gandara) Messrs Craig Taylor & Co of Stockton have been inspected by me as set forth below, and found to be, so far as can be seen, sound and good

Mark on Forgings or Castings.

Lloyd's

No. 7180Date last visit
W.M.Wm MorrisonMiddlesbrough
27.10.19

	CRANK SHAFT.		STRAIGHT SHAFTING.		
	Was ordered for by No. <u>1905</u>	1 THRUST SHAFT.	6 INTERMEDIATE SHAFTS.	working shaft- 1 PROPELLER SHAFT.	
Material* ...	<u>Best steel</u>	<u>Siemens steel</u>	<u>Siemens steel</u>		
How made ...	<u>Forged & Built</u>	<u>Forged</u>	<u>Forged</u>		
Dimensions ...	<u>14 1/2" diam</u>	<u>14 3/4" diam</u>	<u>13 1/2" diam</u>	<u>15 1/2" diam</u>	
Progress on Inspection }	<u>Machined & finished</u>	<u>Machined & finished</u>	<u>Machined & finished</u>	<u>under special survey</u>	
Tests on Standard Test Pieces.	<u>under special survey</u>				
Tensile Test—					
Tons per square inch ...	<u>31.6, 32.4, 31.2, 31.4, 31.8</u>	<u>Per here</u>	<u>See Sheffield Report and</u>	<u>schedule attached to same</u>	
Extension per cent 3	<u>32, 29, 30, 32, 27</u>	<u>Report</u>			
Cold Bending Test—					
Angle before fracture ...	<u>180°, 180°, 180°, 180°, 180°</u>	<u>N° 16504</u>	<u>14.2.19 to</u>	<u>29.8.19</u>	
Dates when Inspected	<u>Last visit 3.4.19.</u>	<u>Last visit 17.4.19</u>	<u>13.3.19</u>		

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:— Continuous liner

Fee (if any chargeable) £ ✓
To be paid at



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Foundation