

Lloyd's Register of Shipping.

(Report on Machinery, No. _____ Port _____)

No. 3978 ENGINE FORGINGS ~~OR CASTINGS~~.

I have to report that the ~~Iron or Steel Forgings or Castings~~, as herein described, manufactured by Messrs Cammell Laird & Co L^{td} of Sheffield for the Engines No. 543 being constructed by Messrs W Duxford & Sons of Sunderland for the Ship No. _____, being built by _____ of _____

have been inspected by me as set forth below, and found to be, so far as can be seen, Satisfactory



Mark on Forgings or Castings.

Lloyd's No. (D) (WG) (H)

J Gungle W & Hume
Sheffield 14/10/19

Forgings

	CRANK SHAFT.	STRAIGHT SHAFTING.		
		THRUST SHAFT.	INTERMEDIATE SHAFTS.	PROPELLER SHAFT.
Material* ...	<u>Sumner's Steel</u>	/	/	/
How made ...	<u>Forged</u>			
Dimensions ...	<u>✓</u>			
Progress on Inspection {	<u>Rough Machined</u>			
Tests on Standard Test Pieces.				
Tensile Test— Tons per square inch ...	<u>See Schedule Attached</u>			
Extension per cent ...	<u>"</u>			
Cold Bending Test— Angle before fracture ...	<u>"</u>			
Dates when Inspected	<u>25/2/19 - 5/9/19</u>			

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—

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



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* If of iron, state whether scrap or puddled iron. If of steel, state whether made on the Open Hearth process.

The words FORGINGS or CASTINGS, IRON or STEEL, should be struck out as may be required.

N^o 3978

Results of Tests from Forgings Made by Messrs Cammell Laird & Co. Sheffield.
For Messrs W Doxford & Sons, L^{td}. Sunderland, Engines N^o 543

Test N ^o	Lloyds N ^o	Description	Tensile Tons Per Sq ⁱⁿ		% Elongation		Bend
			T	B	T	B	
8802KB1	1197	1 Thrust Shaft	29.2	28.5	39.	36	180°
8325KB1	3417	1 Intermediate Shaft	29.0	—	36.	—	"
8350GB2	3436	1 " "	29.7	31.4	37.	36	"
8458IT2	1019	1 " "	28.3	—	42.	—	"
8802KB2	3713	1 " "	30.8	28.3	36.	37	"
" B3	3714	1 " "	28.7	30.4	29.	37	"
8422BB1	1306	1 " "	30.8	29.4	35.	38	"
8267KB1	3651	1 Propeller	29.2	31.6	38.	33	"

J P Purple
W & Hume

14/10/19



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Foundation

(2/2) W52-0148