

For the information of Surveyors and the Committee only.

Received at

Office

Lloyd's Register of British & Foreign Shipping.

(Report on Machinery, No. 34292 Port Glasgow)

of "Bingera"

No. 2109- ENGINE FORGINGS ~~OR CASTINGS~~.

I have to report that the ~~iron or~~ Steel Forgings ~~or Castings~~, as herein described, manufactured by James Carmichael & Co., Ltd. of Dunfermline for the Engines No. 762 being constructed by McKie & Buntin of Govan 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, of good material.

James Carmichael
Dunfermline,
3-2-14.

Lloyd's
 No. 459M
 J.C. 20-12-13 Propeller shaft.
 J.C. 19-1-14 Thrust & 1 intermediate shaft.
 J.C. 3-2-14 3 intermediate shafts.

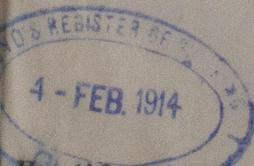
~~CRANK SHAFT.~~

STRAIGHT SHAFTING.

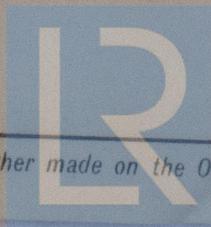
1 THRUST SHAFT. 4 INTERMEDIATE SHAFTS. 1 PROPELLER SHAFT.

Serial* ...	Material	STRAIGHT SHAFTING.			
		1 THRUST SHAFT.	4 INTERMEDIATE SHAFTS.	1 PROPELLER SHAFT.	
	S.M. INGOT STEEL.	S.M. INGOT STEEL.	S.M. INGOT STEEL.		
How made ...	Forged.	Forged.	Forged.		
Dimensions ...	7" dia.	6 5/8" dia.	7 1/2" dia.		
Condition on inspection ...	Black rough turned & finished.				
Tests on Standard Test Pieces.					
Tensile Test—Tons per square inch ...	30.3	30.2 32.1 30.1 30.0	30.6		
Extension per cent ...	32% in 3"	30% 28% 32% 33%	30% in 3"		
Bending Test—Angle before fracture ...	180° W.F.	180° W.F.	180° W.F.		
Dates when Inspected	18/1/13, 24/1/13, 29/1/13, 9/1/14, 11/1/14	28/1/13, 18/1/13, 29/1/13, 31/1/13, 19/1/14, 21/1/14	18/1/13, 14/1/13, 20/1/13		

PARTICULARS OF OTHER TESTS APPLIED TO CASTINGS:—



Fee (if any chargeable) £ none.
 To be paid at _____



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 Foundation

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