

[3 OCT 1931

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Rpt. 15.

Lloyd's Register of Shipping.

RESULTS OF TESTS OF STEEL ⁴Forgings

Made by The Darlington Forge Ltd. Darlington

For Messrs Swan Hunter & Co. Ltd. Newcastle. Engine 1316

Date.	Batch No.	No. of Pieces.	Description.	Charge Mark.	Test Sample No.	Thickness. Dia	Area.	Tons per square inch.	Extension on 3 inches.
									%
2 - 2nd Red Wheel rims			218 1/4 dia		868	.498	.50	54.6	30.0
1 - Shaft Coupling Piece			47 3/4 "		778	"	"	31.0	31.0
2 - 1st Red Wheel rims			149 7/8 "		612	"	"	33.4	28.0
2 - 1st Couplings			47 3/4 "		528	"	"	31.0	31.0
1 - primary wheel shaft			193 1/2 x 7 3/8 "		142	"	"	29.0	35.0
1 - " " "			" " "		144	"	"	30.0	33.0
1 - Turbine Spindle			133 x 7 3/8 "		128	"	"	36.8	25.5
1 - " " "			" " "		130	"	"	36.6	28.0
2 - Transmission Shafts			98 1/2 "		60	"	"	29.8	33.0
1 - Nickel Steel primary shaft			178 1/2 x 5 3/8 "		44	.564	.25	42.4	28.0 on 2"
1 - " " "			" " "		46	"	"	"	" "

All bends angle 180 without fracture
M. Robertson
26-1-29



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Foundation