

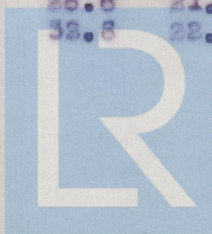
of Hakodate.

8th July, 1926.

Z. Sato,

Upon Seikosho & Co., on the 8th, 18th, 22nd & 29th May, 4th & 5th, 12th, 5th & 26th June, 1926, examine the following articles manufactured by or the order of the Mitsubishi Nagasaki Zosensho and on inspection to be, as far as could be ascertained, sound and free from defects. Articles are forged from S.M.I. steel and annealed, as per specification. Tensile strength, elongation and proportion of sectional area and its original ingot, as per specification, were found to be as follows:-

No.	Articles.		Tensile strength		Elongation	Impact test		Proportion of sectional area	
			Tons	Per Sq		Ft	Lbs.	Rim.	Boose.
			Inch.		in 2"				
3/4 6	H.P. 1st stage	Rim.	35.7	32.3	26.5	26.7	1/9.0	1/5.1	
	disc wheel.		36.0	32.9	19.0	26.0			
		Boose.	37.4	27.8	22.2	22.3			
			37.8	24.8	18.8	16.6			
2/3 1	--	Rim.	34.9	39.0	46.3	50.1	--	--	
			35.1	37.0	47.8	46.7			
		Boose.	35.9	29.2	43.0	31.9			
			36.0	32.9	35.0	24.5			
3/4 4	H.P. 2nd stage	Rim.	34.8	35.7	24.7	22.7	--	--	
	disc wheel.		34.7	35.8	21.3	24.0			
		Boose.	35.0	37.0	22.0	24.3			
			35.0	30.3	21.3	22.7			
3/4 5	--	Rim.	35.5	34.0	31.0	36.2	--	--	
			35.3	32.1	30.5	29.3			
		Boose.	35.3	28.6	21.5	23.8			
			36.2	32.6	22.2	17.2			



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ed No.	Articles.	Tensile strength Tons Per Sq Inch.	Elen- gation in 2"	Impact test		Proportion of sectional area	
				Ft	Lbs.	Rim.	Boos.
2-4/4 3	H.P. 3rd & 4th stage disc wheel.	Rim. 35.2 35.3 Boos. 34.8 34.3	34.9 35.0 28.5 34.0	33.5 31.5	34.0 30.2 26.4 25.8	1/9.0	1/5.1
4/4 4	--	Rim. 35.0 35.1 Boos. 35.4 35.3	34.8 34.8 27.2 25.2	27.7 28.0	29.1 26.0 24.0 17.2 23.0 17.2	"	"
4/4 5	--	Rim. 36.0 36.2 Boos. 36.0 36.0	32.9 33.9 31.9 31.5	23.6 23.7	20.8 27.0 24.4 25.1 24.7 23.5	"	"
4/4 6	--	Rim. 35.9 35.4 Boos. 36.5 35.7	31.0 30.0 23.9 29.0	23.4 26.4 21.7 18.0	22.7 26.2 21.7 21.8	"	"
4/4 7	H.P. 5th stage disc wheel.	Rim. 34.8 35.0 Boos. 36.0 35.9	34.4 33.0 30.6 28.6	27.8 27.3 24.9 23.8	32.2 29.0 24.9 22.3	"	"
3/4 3	--	Rim. 35.0 35.3 Boos. 35.0 35.7	32.7 34.2 35.2 27.9	29.0 27.0 31.8 26.7	31.2 28.2 31.0 26.0	"	"
2/4 6	H.P. 2nd stage disc wheel.	Rim. 36.5 35.5 Boos. 35.3 34.9	33.6 34.4 31.2 29.5	28.0 24.0 23.5 22.0	29.0 26.3 25.0 22.3	"	"
4/4 2	--	Rim. 35.6 35.8 Boos. 36.0 35.1	32.2 34.0 32.2 29.0	22.4 29.4 24.7 23.0	31.0 26.7 26.3 18.9	"	"
1/4 1	L.P. 1st & 2nd stage disc wheel.	Rim. 35.5 35.7 Boos. 35.3 34.7	34.7 34.8 32.6 32.5	33.6 28.5 21.2 24.0	37.2 21.8 21.3 23.8	"	"
1/4 2	--	Rim. 35.0 35.1 Boos. 34.7 35.8	35.0 33.8 31.8 32.4	25.0 24.5 30.0 26.1	26.0 20.6 31.0 25.6	"	"
1/4 3	--	Rim. 36.0 35.9 Boos. 36.1 36.1	33.8 34.0 28.0 23.8	30.9 25.2 23.4 26.7	18.0 23.0 22.0 20.5	"	"
1/4 4	--	Rim. 35.2 35.0 Boos. 35.4 34.8	37.7 34.7 28.3 30.7	25.9 28.5 22.8 23.5	30.4 31.0 21.5 18.5	"	"

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No.	Articles.	Tensile strength Tons per sq inch.	Elongation in 2"	Impact test		Proportion of sectional area	
				Ft	Lbs.	Rim.	Boas.
1/4 5	L.P. 3rd & 4th stage disc	Rim. 35.7 35.0	33.8 33.8	23.1 25.3	21.8 22.4	1/9.0	1/5.1
	wheel. Boas.	37.6 36.8	27.0 27.6	25.7 25.5	27.3 22.2		
1/4 6	--	Rim. 35.2 35.4	34.1 35.1	31.7 29.6	22.2 30.5		
	Boas.	34.6 35.4	33.2 31.4	24.4 23.9	26.6 23.7		
2/4 1	--	Rim. 35.0 35.0	37.2 36.7	28.0 30.5	23.8 27.3	"	"
	Boas.	34.9 35.2	30.5 28.3	17.9 17.0	21.7 14.8		
2/4 2	--	Rim. 36.0 36.0	33.0 33.0	23.7 23.7	25.8 32.4	"	"
	Boas.	35.3 35.9	28.6 32.0	33.1 26.2	29.2 25.3		
2/4 3	L.P. 5th & 6th stage disc	Rim. 35.3 36.1	33.0 32.9	24.2 25.7	28.0 25.7	"	"
	wheel. Boas.	35.3 35.5	28.0 29.6	23.2 24.5	21.7 26.2		
2/4 4	--	Rim. 35.0 35.0	37.7 38.2	21.3 23.6	27.4 23.3	"	"
	Boas.	35.0 34.9	34.8 35.7	15.0 20.8	15.0 15.8		
2/4 5	--	Rim. 35.7 35.8	34.8 36.3	28.3 25.8	30.0 31.7	"	"
	Boas.	35.8 36.8	30.2 24.1	16.2 16.2	25.3 25.8		
1/4 1	--	Rim. 35.8 36.0	31.8 33.6	26.6 24.3	29.1 23.6	"	"
	Boas.	35.3 35.8	33.6 31.9	27.0 25.5	23.6 24.9		
3/4 1	L.P. astern stage disc	Rim. 35.1 35.0	35.0 33.2	32.0 31.3	31.7 30.0	"	"
	wheel. Boas.	35.6 35.2	30.7 31.1	23.8 20.0	27.8 20.2		
3/4 2	--	Rim. 35.3 35.1	36.4 35.6	33.1 28.8	31.4 29.6	"	"
	Boas.	35.0 34.8	30.0 33.7	20.5 25.3	23.2 24.7		



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<u>Specimen No.</u>	<u>Tensile strength Tons Per Sq Inch.</u>	<u>Elongation in 2"</u>	<u>Proportion of sectional area.</u>	<u>Articles.</u>
1/1 9	(A) 31.0 (B) 32.1	35.9 31.5	1/11.5	2nd Gear wheel rim.
1/1 10	(A) 31.7 (B) 32.2	35.5 31.8	"	--
1/1 11	(A) 32.6 (B) 32.1	31.6 33.2	"	--
1/1 12	(A) 31.6 (B) 32.6	36.0 31.8	"	--
1/1 1	(A) 32.6 (B) 32.9	34.5 32.0	1/17.9	1st Gear wheel rim.
1/1 2	(A) 32.6 (B) 32.7	33.5 32.6	"	--
1/1 3	(A) 33.0 (B) 32.2	34.4 33.0	"	--
1/1 4	(A) 32.6 (B) 33.0	34.3 29.8	"	--
1/1 5	(A) 32.8 (B) 33.1	34.3 31.8	"	--
1/1 6	(A) 32.8 (B) 32.9	33.3 32.4	"	--
1/1 7	(A) 33.2 (B) 32.4	34.2 32.8	"	--
1/1 8	(A) 32.8 (B) 33.2	34.1 29.7	"	--



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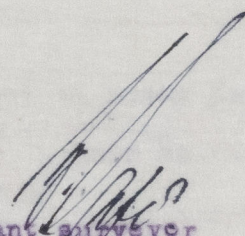
<u>Spec. No.</u>	<u>Tensile strength</u> <u>Tons per Sq Inch.</u>	<u>Elongation</u> <u>in 2"</u>	<u>Proportion of</u> <u>sectional area.</u>	<u>Articles.</u>
2/2 5	36.3	31.5	1/18.2	H.P. turbine
1/1 5	36.2	31.8	1/52.0	rotor shaft.
1/2 4	36.1	32.0	1/30.0	L.P. turbine
1/2 5	36.5	33.5	--	rotor shaft.

end tests good.

above mentioned articles were examined in forging and rough turned
found to be satisfactory.

Fee Yen 58600

Expense Yen 22500


Assistant surveyor
to
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