

of Hakodate.

5th August, 1926.

Z. Sato.

Upon Seikensho & Co., on the 22nd May, 5th, 12th, 19th, 26th June, 7th July, 2nd August, 1926, examine the following articles manufactured by them for order of the Nagasaki Mitsubishi Zosensho and on inspection found to be, 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 weight per ingot, as per specification, were found to be as follows:-

Ingot No.	Tensile strength Tons per Sq inch.	Elongation in 2".	Proportion of sectional area		Articles.
			at body.	at collar.	
1/1 6	37.8	27.8	1/64.0	1/17.0	Connecting shaft.
" 7	37.1	27.2	"	"	" "
4/4 5	35.0	32.8	1/18.5	1/3.4	" "
" 6	35.9	28.4	"	"	" "
1/2 2	36.6	31.0	1/6.6	1/2.8	2nd gear wheel shaft.
" 3	36.8	31.2	"	"	" "
2/2 1	36.0	29.5	1/5.0	1/2.1	1st gear wheel shaft.
" 4	35.3	29.9	"	"	" "
" 2	35.2	29.5	"	"	" "
" 3	35.0	28.9	"	"	" "



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Nickel steel forgings for reduction gear.

No.		Elastic strength.	Tensile strength Tons per Sq Inch.	Elongation in 2".	Proportion of sectional area at body.	Proportion of sectional area at collar.	Articles.
/3 1	transversely	26.7	43.6	29.7	1/8.2	1/5.2	L.P. pinion shaft
	axially	27.0	43.6	23.7			
" 2		27.1	34.3	24.2	--	--	-- " --
		28.0	44.8	20.2			
" 3		27.3	43.1	29.3	1/10.6	1/5.2	H.P. pinion shaft
		27.7	43.9	26.6			
" 4		27.0	42.2	25.0	--	--	-- " --
		26.9	42.6	27.2			
/4 1		32.8	45.0	26.6	1/6.7	-----	Flexible drive shaft
		31.2	43.8	21.3			
" 2		31.8	44.4	27.3	--	-----	-- " --
		30.3	43.2	17.8			
/3 6		28.2	43.5	30.3	1/14.5	-----	-- " --
		28.0	42.8	22.4			
" 7		26.5	42.2	30.6	--	-----	-- " --
		27.0	42.2	23.0			
/4 1		28.3	42.8	30.5	1/8.2	1/2.9	2nd pinion shaft
		31.0	44.9	24.3			
" 2		27.8	42.7	29.6	--	--	-- " --
		30.0	44.9	25.0			
" 3		27.0	43.7	29.7	--	--	-- " --
		32.4	45.0	26.1			
" 4		27.2	44.0	28.2	--	--	-- " --
		26.3	43.7	26.9			

Composition of the above mentioned articles as per specification being

	C	Si	Mn	P	S	Ni	Cr	Cu
marked No. 1510.	.29	.16	.57	.025	.024	3.55	.18	.100
marked No. 1547.	.37	.14	.60	.025	.018	3.50	.18	.120
marked No. 1568.	.35	.14	.46	.028	.029	3.50	.34	.132



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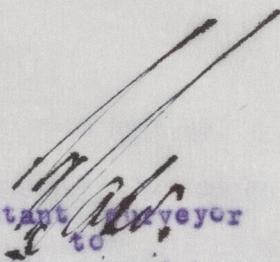
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<u>Tested No.</u>	<u>Tensile strength Tons per Sq Inch.</u>	<u>Elongation in 2".</u>	<u>Proportion of sectional area</u>		<u>Articles.</u>
			<u>at body.</u>	<u>at collar.</u>	
<del>12 1/1 1</del>	<del>29.8</del>	<del>39.7</del>	<del>1/8.5</del>	<del>1/1.8</del>	<del>Thrust shaft.</del>
" 2	29.7	39.4	--	--	- " -

bend tests good.

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

Fee Yen 60000  
Expense Yen 7500

  
Assistant Surveyor  
to  
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