

#410

Santo Maru

Winterthur,

3rd April 1925

Order No 16346

C.256

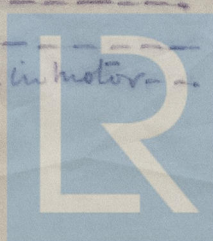
W.G. Vallis.

Messrs. Brown Boveri & Co. attend at their Works in Baden on the 30th March to witness the final acceptance tests on 2-140 H.P. motors, and again on the 1st and 3rd April to witness the final acceptance tests on 3-150 K.W generators, the said motors & generators being intended for the M.S. No 410 building to Class by Messrs. Mitsubishi Zosen Kaisha at Nagasaki.

The motors tested on the 30th March were run directly coupled No 963 acting as motor and No 962 as generator

The following readings taken from the motor were recorded:-

Duration of test.	9.0 am to 3.15 pm.
Average revolutions per min.	400
" volts.	220
" amps.	520.
K.W input	114.4
" losses	10.7
" output	103.7
H.P. input.	155.4
" output.	141.
Efficiency of motor	90.6
Maximum temperature rise in motor	37.5°C



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The two generators tested on the 1st April were also directly coupled N^o 955 acting as motor and N^o 956 as generator.

The following readings were recorded during this test:-

	Full load readings from generator.	25% overload readings from motor.	Half load readings from generator.
Duration of trial -----	7.45 am to 11.50 am.	12.15 pm to 2.45 pm.	3.10 pm to 3.40 pm.
Average revolutions per min.	300	300	300
" Volts. -----	225	225	226
" amps. -----	666	700	333
K.W. output. -----	150	Not guaranteed	75
" " losses. -----	14.24	-do-	8.4
" " input. -----	164.24	-do-	83.4
Efficiency of generator. --	91.5%	-do-	90%
Maximum temperature rise	35.2°C.	Not excessive	✓

The overload readings were taken from the motor N^o 955 as the load on the motor would have been excessive with the generator developing 25% overload.

The generator N^o 954 tested on the 3rd April was directly coupled to N^o 956 tested on the 1st instant. During this test the machine N^o 956 acted as motor, and the following readings were recorded from N^o 954 at full load:-

Duration of trial. -----	8.45 am to 12.0 pm.
Average revolutions per minute -----	300
" Volts. -----	225
" amps. -----	666
K.W. output. -----	150
" " losses. -----	14.26
" " input. -----	164.26
Efficiency of generator. -----	91.4%
Maximum temperature rise -----	36°C

The running of all machines during the trials was satisfactory, and for identification purposes they have been stamped. R.

On completion of each of the above trials the insulation of all machines was tested by a pressure of 1500 volts across terminals, and this was withstood for one minute.

£ Fees £ 10-0-0.
Exp £ 1-5-0.
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