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Winterthur

8th July, 1925.

C284.

W. S. Vallis

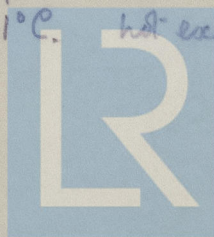
Messrs. Brown, Boveri & Co., attend at their Works in Baden on the 25th May, 8th and 24th June, 1925, to witness the final acceptance tests on G-150 K.W. generators, the said generators being intended for the Motor Ships N^{os} 411 and 412 building to Class by Messrs Mitsubishi Zosen Kaisha at Nagasaki.

The generators were run in pairs directly coupled, one acting as motor and the other as generator.

The following readings were recorded during

the tests:-

	Full load readings from generator	25% overload readings from motor
N ^o of Generator	956	957
Date of test	25-5-25	25-5-25
Duration of test	9.0 am to 1.0 pm	1.40 pm to 3.40 pm.
Average revolutions per min.	300	302
" Volts.	225	235
" amps.	666	835
K.W. Output.	150	✓
K.W. losses.	13.75	✓
K.W. input.	163.75	196
Efficiency of generator	91.7%	✓
Maximum temperature rise	36.1°C.	hot exchanger



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	Full load readings from generator.	25% overload readings from motor.
No. of generator.	959	960
Date of test.	8-6-25	8-6-25
Duration of test.	8-20 am to 3-35 pm. 4-0 pm to 6-0 pm.	
Average revolutions per min.	300	300
" volts.	225	225
" amps.	666	840
K.W. output.	150	✓
K.W. losses.	12.82	✓
K.W. input.	162.82	189
Efficiency of generator.	92.2%	✓
Maximum temperature rise.	35.8°C.	not excessive.

	Full load readings from generator.	25% overload readings from motor.	Half load readings from generator.
No. of generator.	961	962	961
Date of test.	24-6-25	24-6-25.	24-6-25
Duration of test.	8-0 am to 2-0 pm	2-30 pm to 4-30 pm	4-35 pm to 5-05 pm
Average revolutions per min.	300	300	300
" volts.	225	225	225
" amps.	666	835	333
K.W. output.	150	✓	75
K.W. losses.	13.0	✓	7.13
K.W. input.	163	188	82.13
Efficiency of generator.	92.1%	✓	91.4%
Maximum temperature rise	37°C	not excessive	✓

The overload readings in all cases were taken from the motor, as the load on the motor would have been excessive with the generator developing 25% overload.

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

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

Fees £6-0-0

Exp 12-0

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W. S. Dallas
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