

410 - 411 + 412  
Nag  
Winterthur,

23<sup>rd</sup> April, 1925.

Order N<sup>o</sup> 16346.

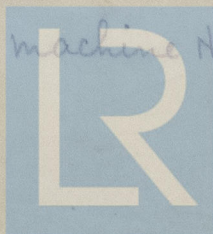
W. G. Vallis

Messrs. Brown, Boveri & Co. attend at their Works in Münchenstein on the 4<sup>th</sup> March, and the 22<sup>nd</sup> April, 1925, to witness the final acceptance tests on three 37.5 K.W. generators; the said generators being intended for the Motor Ships N<sup>os</sup> 410, 411 and 412 building to Class by Messrs. Mitsubishi Zosen Kaisha at Nagasaki.

The generator N<sup>o</sup> A171493 tested on the 4<sup>th</sup> February was directly coupled to a shop motor, and the following readings were recorded: -

Duration of full load test. ---	8.0 am to 12.0 pm
Average revolutions per minute ---	350
" volts. ---	225
" amps. ---	164
K.W. output. ---	36.9
" " losses. ---	4.273
" " input. ---	41.173
Efficiency of generator. ---	89.6
Maximum temperature rise. ---	34.8°C.

The two generators tested on the 22<sup>nd</sup> April N<sup>os</sup> A171494 and A171495 were also directly coupled. For the full load test the machine N<sup>o</sup> A171494 acted as.



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motor and N<sup>o</sup> A171495 as generator, but for the overload test the positions were reversed, machine N<sup>o</sup> A171495 acting as motor, and N<sup>o</sup> A171494 as generator.

The following readings were recorded during these tests:-

	Full load readings from generator.	25% overload readings from motor.
Duration of test.-----	8-0 am to 2-0 pm	2-15 pm to 4-20 pm.
Average revolutions per minute.---	350	350
" volts.-----	225	225
" amps:-----	167	209
W output.-----	37.5	47
" " losses.-----	4.365	✓
" " input.-----	41.865	✓
Efficiency of generator-----	89.6	✓
Maximum temperature rise----	38°C.	not excessive

The overload readings were taken from the motor N<sup>o</sup> A171495, 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 benches 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.

W. S. Vallis.

Surveyor to Lloyd's Register of Shipping.

ees £ 5-0-0

exp £ 2-5-0.

Paid at Wintertbury



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