

#411

Winterthur, Naf  
9<sup>th</sup> June, 1925.

C271.

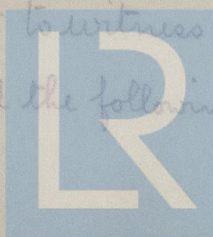
W. G. Vallis.

Messrs. Brown, Boveri & Co. attend at their Works in Baden on the 30<sup>th</sup> March, and 17<sup>th</sup> April, 1925 to witness the overspeed tests on two blower impellers, and two motor armatures intended for two motor driven scavenging blowers for the M. S. N<sup>o</sup> 411 building to Class by Messrs Mitsubishi Zosen Kaisha at Nagasaki.

The impellers and armatures were run at 3400 R. P. M. for 3 minutes, the normal working speed of the blowers being 2700 R. P. M., and the maximum speed 2800 R. P. M.

The impellers and armatures were gauged and inspected after the tests, and they were found to be, as far as can be seen, free from defects or permanent set.

The undersigned attended again on the 17<sup>th</sup> April and 8<sup>th</sup> June, 1925 to witness the overspeeding tests of the scavenging blowers, and the following readings were recorded:-



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Blower B. N<sup>o</sup> 4130 tested 17-4-25 with  
readings corrected to guarantee conditions.

	normal load	N <sup>o</sup> 1 overload	N <sup>o</sup> 2 overload
	readings.	readings.	readings
Duration of test.	9.30 am To 3.30 pm.	3.30 pm To 4.0 pm	4.0 pm To 4.30 pm.
Average revolutions per min.	2500	2550.	2550
K.W. input.	163.5.	160	178.5
Pressure ratio.	1.11	1.10	1.12
Intake volume of free air per min.	678.	744.	663

Blower B. N<sup>o</sup> 4133 tested 8-6-25 with  
readings corrected to guarantee conditions

	normal load	N <sup>o</sup> 1 overload	N <sup>o</sup> 2 overload
	readings	readings.	readings.
Duration of test	8.30 am To 2.30 pm	✓	✓
Average revolutions per min..	2500	2600	2590
K.W. input.	170.5	193.5	183.5
Pressure ratio	1.11	1.10	1.12.
Intake volume of free air per min..	657..	750	666.

The volume of air was measured by means of a nozzle 375<sup>mm</sup>. diameter for the first blower and by a 425<sup>mm</sup>. diameter nozzle for the second.

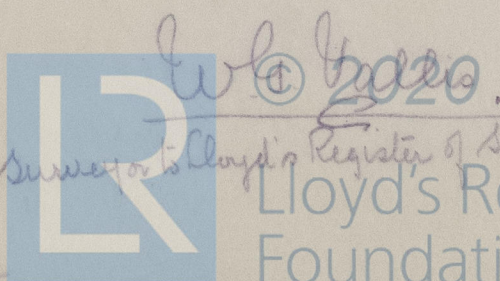
The running of both blowers and motors during the tests was satisfactory and for identification purposes they have been stamped. B.

On completion of the tests the maximum temperature rise recorded in either motor was 33°C, and the insulation of the motors was tested by a pressure of 1500 Volts which was withstood for one minute.

Fees £ 8-8-0

Exp. 12-0

Paid at Wintertun.



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