

#412

Winterthur

8th July, 1925.

C 283.

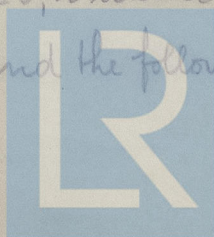
W. S. Vallis

Messrs. Brown, Boveri & Co. attend at their works in Baden on the 17th April, and 25th May, 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. No 412, 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 before and 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 24th June, and 3rd July, 1925, to witness the final running tests of the scavenging blowers, and the following readings were recorded:



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Blower B. N^o 4134 tested 24-6-25 with
readings corrected to guarantee conditions.

	normal load readings.	N ^o 1 overload readings.	N ^o 2 overload readings.
Duration of test.	8.0 am to 2.0 pm	✓	✓
Average revolutions per min.	2490	2540	2550
K.W. input.	172.7	189.5	188
Pressure ratio	1.11	1.10	1.12
Intake volume of free air per min.	667 cub. met.	738 cub. met.	660 cub. met.

Blower B N^o 4135 tested 3-7-25 with
readings corrected to guarantee conditions.

	normal load readings.	N ^o 1 overload readings.	N ^o 2 overload readings.
Duration of test.	8.30 am to 2.30 p.m.	✓	✓
Average revolutions per min.	2520	2550	2560
K.W. input.	169	190	183
Pressure ratio.	1.11	1.10	1.12
Intake volume of free air per min.	669 cub. met.	741 cub. met.	665 cub. met.

The volume of air for both blowers was measured by means of a nozzle 4.25" in diameter.

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

On completion of the tests the maximum temperature rise recorded in either motor was 32°C and the insulation of the motors was tested by a pressure of 1500 volts which was withstood for one minute.

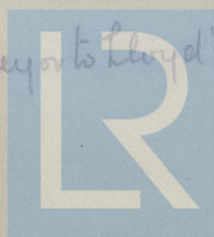
W. G. Hallis

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