STL SPRAYBOOTH TECHNOLOGY LIMITED

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## EPA PG6/47(11) Particulate Emission Type Test Data

Booth Make & Type: Spraybooth Technology Ltd. Industrial Spraybooth

Booth Age Oct 2022

Test Date: 10 Oct 2022

The following test results where formulated using a AMS950 hand held aerosol monitoring system and in accordance with the protocol for the measurement of particulate emissions from a vehicle spraybooth.

## <u>Test Results</u>

Extract Filter Media & Size:	Duplex. (2" paint arrestor & VNF 290B) Size: 6000mm x 20000mm
Extract Air Volume Rate:	789.00 Metres <sup>3</sup> / min
Position of Sampling Points:	4 Mt. from extract fan with 2 holes drilled at right angles.

## Conditions under which the test was carried out:

A motor vehicle was placed in the center of the booth. A reading was taken with the Casella AMS950 prior to spraying beginning, to ensure zero particulate emissions. Normal spraying was carried out over a period of 10 minutes using a De vilbiss GTI spray gun at a pressure of 80psi with waterborne paints. Readings were taken 30 seconds after spraying commenced over a period of 2 minutes using both ports in the extract duct. Airflow and temperature readings were taken in the booth during spray cycle to determine efflux velocity.

## Was Testing Carried Out in Accordance With Part 4 Of The Testing Procedure: Yes

Temperature Of The Stack Exhaust Gases:21 °C

Particle Reading In Sampling Points With No Spraying:

0.00 mg/m<sup>3</sup>





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Particle Readings (taken at 10 sec intervals over 2 min, 30 sec after commencement of spraying) all readings in mg/m<sup>3</sup>:

<b>C1</b>	10 sec: 20 sec: 30 sec: 40 sec: 50 sec: 60 sec: 70 sec: 80 sec: 90 sec:	0.24 0.77 0.92 1.42 1.70 2.70 1.86 2.51 3.23 1.48	C2	10 sec: 20 sec: 30 sec: 40 sec: 50 sec: 60 sec: 70 sec: 80 sec: 90 sec:	2.69 2.51 2.79 2.85 3.26 3.09 3.19 3.17 2.06 2.72
	100 sec: 110 sec:	1.48 1.38		100 sec: 110 sec:	
	120 sec:	1.23		120 sec:	1.23
	Total	19.44		31.25	
	Average	<u>1.62</u>		<u>2.60</u>	

The Average Concentration Of The Two Readings (temperature corrected) using the formula

$$C(t^{o}C) \times \frac{273 + t}{273} = C(0^{o}C)$$

 $\frac{1.62 + 2.60}{2} = 2.11 \text{ x } \frac{(273 + 24)}{273} = \frac{2.30 \text{ mg/m}^3}{2.30 \text{ mg/m}^3}$ 

The Discharge Velocity Measured At the exit point of the ducting: **15.66 Mt/Sec** 

These tests are correct and accurate and are within the EPA PGN 6/47 (11) requirements.

P.J.AA

Signature

FOR AND ON BEHALF OF SPRAYBOOTH TECHNOLOGY LIMITED