

APPENDIX III

DATA REDUCTION

The following table contains the pertinent test data and calculated results from the brake dynamometer tests:

Test Sample	Units	Breakin		Normal Use		Hi Temp Use		Calculation Basis
		Test	Bkgrd	Test	Bkgrd	Test	Bkgrd	
1. Filter Air Flow	m ³	2.22	2.22	23.00	21.80	0.564	0.564	Measured
2. Filter pickup	mg	0.36	0.10	1.56	0.90	0.27	0.00	Measured
3. Filter Asb. Conc. ng/cm ²		15.32	1.06	7.98	4.64	5.37	0.12*	Measured
4. "Blank" Asb. Conc. ng/cm ²		0.33	0.33	0.33	0.33	0.33	0.33	Measured
5. Filter Area	cm ²	9.62	9.62	9.62	9.62	9.62	9.62	Measured
6. Filter Asbestos	ng	144.2	7.02	73.59	41.46	48.48	1.07*	[(3)-(4)] x (5)
7. Asb. Conc. in Air ng/m ³		64.95	3.16	3.19	1.90	85.96	1.90*	(6) ÷ (1)
8. Lining Asb. in Exh. Air	ng/m ³	61.8		1.29		84.1		Δ(7)
9. Lining Asb. on Filter	ng	137.2		29.7		47.4		(8) x (1)
10. Duct flow/filter flow		1235		1235		1235		From Meas.
11. Lining Asb. released	mg	0.169		0.0367		0.0586		(9) x (10)
12. Lining worn	mg	1100		1600		1070		Measured
13. Asb. released as % of wear		0.015%		0.0023%		0.0055%		(11) ÷ (12) x
14. Lining dust on filter	mg	0.26***		0.61**		0.27***		Δ(2)
15. Lining dust in air	mg	321		754		333		(10) x (14)
16. % Asb. in wear dust		0.053%		0.0049%		0.016%		(11) ÷ (15) x
17. Lining dust as % of wear		29%***		47%		31%***		(15) ÷ (12) x

* Value calculated based on "normal use" background, due to insufficient sample

** Corrected for flow volume difference through test and background filters

*** Filter in one (central, location, and thus possibly non-representative

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