



Photo 5. December 4, 2007- Vibromax 1105 vibratory smooth drum roller used to compact test pad fill.

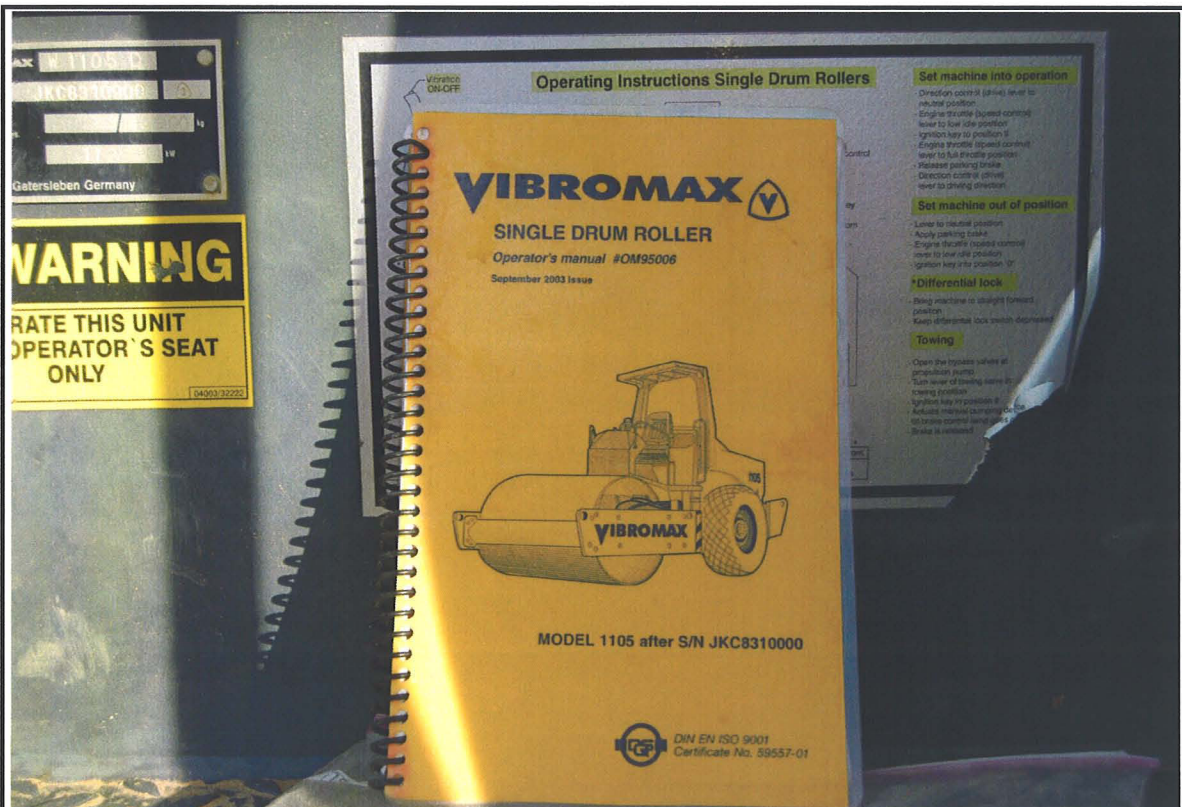


Photo 6. December 4, 2007- Cover of the Operations Manual for the Vibromax 1105 roller used during compaction of test pad fill.

ENGINE Make/Model/Type/Displacement - cu. in. (cc)				Cummins 6BTA5.9C150, 6 cylinder turbo diesel (water cooled), 369 cu.in. (5980cc)			
HP, SAE net (kW) @ 2200 rpm				150 (112)			
Air Cleaner / Fuel filter				Dual replaceable elements, Spin-on cartridge			
Fuel capacity - gal (ltr)				103 (390)			
Operating weight CECE -lb (kg)				1105D			
Weight, front-lb (kg)				25138 (11400)		1105PD	
Weight, rear axle - lb (kg)				13010 (5900)		26020 (11800)	
Static applied linear drum load lb/in (kg/cm)				12128 (5500)		13892 (6300)	
Articulation/oscillation-degrees				164 (29.3)		12128 (5500)	
Turning radius-inside-ft. (m)				35/15		35/15	
Curb clearance - in. (mm)				11'10" (3.6)		11'10" (3.6)	
Drum shell thickness-in. (mm)				19.5 (495)		19.5 (495)	
Number of pad feet/height of foot - in. (mm)				1.0 (25)		1.0 (25)	
Contact area of foot-sq. in. (cm)				132/ 3.9 (100)		132/ 3.9 (100)	
Tire size				23.1/18-26 8PR diamond tread		23.1/18-26 10PR tractor tread	
Travel speed - 1st range mph (km/hr)				0 - 4.8 (0 - 7.7)		0 - 4.8 (0 - 7.7)	
2nd range mph (km/hr)				0 - 7.9 (0 - 12.7)		0 - 7.9 (0 - 12.7)	
Theoretical gradeability, forward - %				60		60	
Brakes - front drum				disc		disc	
rear axle				disc - input shaft		disc - input shaft	
Max compaction depth - in. (cm)				1st Stage	2nd Stage	1st Stage	2nd Stage
Frequency - vpm (Hz)				39.4 (100)	2160 (36)	39.4 (100)	2160 (36)
Amplitude - in. (mm)				1740 (29)	2160 (36)	1740 (29)	2160 (36)
Centrifugal force - lb (kN)				.063 (1.6)	.024 (.6)	.063 (1.6)	.024 (.6)
Centrifugal force/drum width - lb/in. (N/cm)				50565 (225)	29440 (131)	50565 (225)	29440 (131)
Total applied force - lb (kN)				611 (1071)	356 (623)	611 (1070)	356 (623)
Total applied linear force - lb/in. (N/cm)				64125 (285)	43000 (191)	65780 (293)	44655 (198)
				775 (1360)	520 (912)		

Photo 7. December 4, 2007 – Specifications page from Vibromax 1105 Operations Manual.



Photo 8. December 4, 2007 – Sand cone density test is underway by Roger Blalock. Two 5-gallon bulk samples will be obtained from the density test layer for testing.



Photo 9. December 5, 2007- Moisture conditioning of fill layer.



Photo 10. December 5, 2007 – A sand cone density test excavation is being repaired with a “Wacker Packer”.



Photo 11. December 9, 2007- Dr. Stokoe generates vibrations for Spectral Analysis of Surface Wave (SASW) testing, at shallow depth.



Photo 12. December 9, 2007- Jiabei Yuan Records SASW test data.