

Populations, Activity and Emissions of Diesel Nonroad Equipment in EPA Region 7

Equipment Inventory Results All Phases Appendix W

Assessment and Standards Division
Office of Transportation and Air Quality
U.S. Environmental Protection Agency

Prepared for EPA by
Eastern Research Group, Inc. (ERG)
EPA Contract No. EP-C-06-080

Establishment Sample #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7001437	1		6/4/2007	Compact Skid Steer Loader	Ingersoll Rand Bobcat	S300, Turbo, High Flow	Yes
7001437	1		6/4/2007	Roller / Compactor	Ingersoll Rand	CR-30	N/A
7001437	1		6/4/2007	Grader	Babcock Allatt	SG100	N/A
7001437	1		6/4/2007	Compact Skid Steer Loader	Ingersoll Rand Bobcat	873 Turbo	Yes
7001688	2	1	6/5/2007	Directional Bore Machine	Vermeer	D20 x 22	No
7001688	2	2	6/5/2007	Directional Bore Machine	Vermeer	D16 x 20A	No
7001688	2	3	6/5/2007	Vacuum pump/tank	American Manufacturing, Liquid Waste Division	PMD-500GT (on tank) PMD-00 (on chassis)	No

Establishment Sample #	Hour Meter	Pipe OD (inches)	Ownership (if Known)	PAMS Elig.	PEMS Elig.
7001437	1413.0	2.5	Prime	Y	N
7001437	462.2	1.8	Prime	Y	N
7001437	349.9	2.0	Prime	Y	Y
7001437	3086.0	2.5	Prime	Y	N
7001688	575.0	2.5	Prime	Y	Y
7001688	606.0	2.0	Prime	Y	Y
7001688	1016.9		Prime	N	N

Establishment Sample #	Field Observations / Comments	Model Year	Age	Usage (hrs/yr)	HP
7001437	Uncertain about whether or not a PEMS will fit on it (top)	2004	3	471	81
7001437	Name plate also indicated "Manufacturer Code SGK". This was not in Serial # guide, Alan called Ingersol Rand (800-227-0573) to obtain build date (using serial #). IR said build date was May 2001. HP Looked up for DD-30	2001	5	92	40
7001437	Not in Serial # guide. Nameplate highly faded. Could possibly hold PEMS on top rack above driver/operator. See http://www.answers.com/topic/babcock-international-group-plc for info on Babcock Allatt (seems they merged in 1979).	Unk	??		??
7001437		1999	8	386	73
7001688	ID BR-23 lettered on side of machine. Operator believes equipment is a 2006 model (but serial # decode (10th digit) indicates 2007). Engine tag indicates 64 kw (which is approx 85.8 hp) Engine family 5PKXL04 4REI, 2160/2400, 4.0L displacement. May be PEMS eligible if equipment is placed near the machine. Once the boring begins, the rig cannot move.	2007	1	575	86
7001688	BR-20 lettered on side of machine. Machine is approx 1 or 2 years old according to operator. 65 HP from engine plate Engine family 3.26L displacement Cummins. May be PEMS eligible if equipment is placed near the machine. Once the boring begins, the rig cannot move.	2006	2	303	65
7001688	GASOLINE ONLY - DO NOT SELECT FOR INSTRUMENTATION Second digit in serial # (0) is difficult to read, may be something other than a zero.				

Establishment Sample #	Usage Bin	HP Bin	BIN	PEMS Selection	PAMS Selection	PAMS Backup	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3
7001437	L	L	LL	X	X		EQ ID 3		
7001437	L	L	LL	X			EQ ID 3		
7001437	L	Other	Other						
7001437	L	L	LL		X				
7001688	L	L	LL		X	EQ ID 4			
7001688	L	L	LL	X	X	EQ ID 4	EQ ID 1	EQ ID 4	
7001688									

Establishment Sample #	PEMS Backup 4	PEMS Backup 5	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9
7001437						
7001437						
7001437						
7001437						
7001688						
7001688						
7001688						

Establishment Sample #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7001688	2	4	6/5/2007	Directional Bore Machine	Ditch Witch - Mfrd by Charles Machine Works	JT 1220 Mach 1	No
7001688	1	1	6/5/2007	Backhoe	Case, LLC	580 Super M+	Yes
7001688	1	2	6/5/2007	Trencher	Ditch Witch	5110 (Main Assembly) A420 (Attachment)	No
7002208	1	1	6/6/2007	Backhoe	John Deere	410B Turbo	Yes
7002281	1	1	6/7/2007	Crawler Loader	Caterpillar - Mitsubishi Ltd	953	Yes
7001911	2	1	6/7/2007	Crawler Loader	Ingersoll Rand Bobcat	T300 Turbo	Yes
7001911	2	2	6/7/2007	Track Hoe	Ingersoll Rand	328	No

Establishment Sample #	Hour Meter	Pipe OD (inches)	Ownership (if Known)	PAMS Elig.	PEMS Elig.
7001688	N/A	3.5	Prime	Y	Y
7001688	1331.8	3.0	Leased	N	N
7001688	112.2	1.8	Unk	N	N
7002208	4581.1	3.0	Prime	Y	Y
7002281	8535.7	3.0	Unk	Y	Y
7001911	3492.0	2.5	Prime	Y	N
7001911	2001.8	1.625	Prime	Y	Y

Establishment Sample #	Field Observations / Comments	Model Year	Age	Usage (hrs/yr)	HP
7001688	Hour meter digital, I did not turn on machine or go get operator. Name plate indicated power = 42 kw (which is approx 56.3 HP). Mass = 4400 KG. 85.8 hp) Engine family 5PKXL04 4REI, 2160/2400, 4.0L displacement. May be PEMS eligible if equipment is placed near the machine. Once the boring begins, the rig cannot move.	2007	1	??	56
7001688	Book indicates backhoe is a super M+ Series II. NOTE: PER 6/6 Conference call with S Kishan, J Warila, R Santos, S Sen, equipment at this site will be "backup" in case other PEMS-testable equipment is not available and the instrumentation crew needs PEMS testing eligible equipment.	2004	3	444	90
7001688	Hour meter appears to be frozen (very low relative to appearance of equipment, and tachometer is stuck at 1000 RPM when off). I only copied info off attachment nameplate, not off main equipment (Alan determined thru calling Ditch Witch). Attachment year is 1993, appears original with main assembly, so main assembly estimated 1993. NOTE: PER 6/6 Conference call with S Kishan, J Warila, R Santos, S Sen, equipment at this site will be "backup" in case other PEMS-testable equipment is not available and the instrumentation crew needs PEMS testing eligible equipment.	1993	14	8	
7002208	"83" is stamped into nameplate to the right of the serial #, presumably the build year, confirmed by Equip Watch Serial # guide.SK Comment : 401B Turbo not available in book, Entered HP for 410D.	1983	24	191	75
7002281	Serial # is known as PIN, Arrangement # is 4Y0855. Engine is 3204, serial # 45V52888, arrangement # 1W1356. Transmission PIN is 7XA00581, arrangement # 9J5378	1986	21		
7001911	dp-used T300 G-Series as the reference	2003	4	873	81
7001911	used SpecCheck to find the horsepower: http://www.spec-check.com/quickfinder-results-freetrial.cfm Unknown model year-can't calculate hrs/year usage---Visual guess of age base on appearance is between 3-4 years old. I will assume 3 years of age for determining Usage Bin.	UNK	3?	667	27.5

Establishment Sample #	Usage Bin	HP Bin	BIN	PEMS Selection	PAMS Selection	PAMS Backup	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3
7001688	??	L	Other	X			EQ ID 2	EQ ID 1	
7001688	L	L	LL	X					
7001688	L	??	other						
7002208				x	x				
7002281				x	x				
7001911	H	L	HL		x	EQ ID 3			
7001911	L	L	LL	x					

Establishment Sample #	PEMS Backup 4	PEMS Backup 5	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9
7001688						
7001688						
7001688						
7002208						
7002281						
7001911						
7001911						

Establishment Sample #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7001911	2	3	6/7/2007	Skid Steer Loader	Case, LLC	1825	Yes
7001911	2	4	6/7/2007	Concrete Saw	Core Cut	CC6560 XLS	No
7001911	2	5	6/7/2007	Crane	Pettibone	Multikrane #36	No
7000685	3	1	6/11/2007	Crawler Tractor	Komatsu	Avance D65 EX-12	No
7000685	3	2	6/11/2007	Grader	Komatsu	GD655-3C	Yes
7000685	3	3	6/11/2007	Skid Steer Loader	Case, LLC	60XT	Yes
7000685	3	4	6/11/2007	Crawler Tractor	Caterpillar	D8R	Yes
7000685	3	5	6/11/2007	Motor Scaper	Caterpillar	627G	Yes
7000685	3	6	6/11/2007	Crawler Tractor	Komatsu	D65EX-15	Yes
7000685	3	7	6/11/2007	Motor Scaper	Caterpillar	627G	Yes
7000685	3	8	6/11/2007	Crawler Tractor	Caterpillar	D6NXL	Yes
7000685	3	9	6/11/2007	Hydraulic Excavator	Komatsu	PC300LC-7L	Yes
7000685	3	10	6/11/2007	Crawler Tractor	Caterpillar	963B	Yes
7000685	4	11	6/12/2007	Crawler Excavator	Komatsu	PC40MR-2	
7000685	4	12	6/12/2007	Crawler Excavator	Komatsu	PC138-USLC-2E0	Yes
7000685	4	13	6/12/2007	Compactor	BOMAG	BW145DM-3	
7000685	4	14	6/12/2007	Crawler Loader	Takeuchi	TL150	Yes
7000685	4	15	6/12/2007	Crawler Loader	Takeuchi	TL150	Yes
7000685	4	16	6/12/2007	Crawler Loader	CAT	963C	Yes
7000685	4	17	6/12/2007	Crawler Excavator	Komatsu	PC200LC-6LE	Yes
7000685	4	18	6/12/2007	Crane/Lift	Omniquip Skytrack Int.	60365	
7000685	4	19	6/12/2007	Skid Steer Loader	Case, LLC	1845D	Yes

Establishment Sample #	Hour Meter	Pipe OD (inches)	Ownership (if Known)	PAMS Elig.	PEMS Elig.
7001911	1469.4	1.3125	Prime	Y	N
7001911	47.6	2.5	Prime	Y	N
7001911	7370.1	3"	Prime	Y	Y
7000685	01806.6	4"	Leased	Y	Y
7000685	01562.1	6.5"	Prime	Y	Y
7000685	Notes	2.5	Prime	Y	Y
7000685	16273.4	Unk	Prime	Y	Y
7000685	Unavail	Unk	Leased	Y	Y
7000685	8718.5	Unk	Leased	Y	Y
7000685	Unavail	Unk	Leased	Y	Y
7000685	2124.0	Unk	Prime	Y	Y
7000685	Notes	Unk	Prime	Y	Y
7000685	1341.0	Unk	Prime	Y	Y
7000685	214.3	2"	Leased	Y	Y
7000685	1974.3	3"	Owned	Y	Y
7000685	45.29	2.75"	Leased	Y	Y
7000685	1502.9	3"	Owned	Y	Y
7000685	916.1	3"	Unk	Y	Y
7000685	7043.4	Unk	Owned	Y	Y
7000685	*	Unk	Owned	Y	Y
7000685	2036.79	3.125"	Owned	Y	Y
7000685	1385.3	2.25"	Owned	Y	Y

Establishment Sample #	Field Observations / Comments	Model Year	Age	Usage (hrs/yr)	HP
7001911	HP based on model 1825B	1995	12	122	30
7001911	Unknown model year-can't calculate hrs/year usage---assigned to Low usage bin http://www.coresnsaws.com/concrete-saws-datasheet.asp?series=CC6500	UNK			61
7001911	Serial # plate very damaged, indecipherable. Date of manuf. Is reverse of first 2 digits or S/N. Site contact said it's a 1975.	1975?	32?	230	127
7000685		1996	11	164	190
7000685	Part Identification # KMTGD015K01051214	2005	2	781	175
7000685	Oil filter indicates 2072 hours as of 5/24/07. I had no key and could not get digital hour meter reading.	2003	4	518	75
7000685	Inventoried on lunch hour, ran out of time for tailpipe diameter. Engine ID 3406	1999	8	2034	302
7000685	Inventoried on lunch hour, ran out of time for tailpipe diameter. No key to obtain digital hour meter reading.	2004	3	#VALUE!	393
7000685	Inventoried on lunch hour, ran out of time for tailpipe diameter. Part Identification Number KMT0D060J01067946	2006	1	8719	190
7000685	Inventoried on lunch hour, ran out of time for tailpipe diameter. No key to obtain digital hour meter reading.	2004	3	#VALUE!	393
7000685	Inventoried on lunch hour, ran out of time for tailpipe diameter	2005	2	1062	143
7000685	Inventoried on lunch hour, ran out of time for tailpipe diameter. Hour meter unavailable (digital, no key), oil filter reads 5462 hours at 5/24/07. Part Identification Number KMTPC065V54A86070. SK: Found PC300L-7 in Serial Number guide	2004	3	1821	254
7000685	Inventoried on lunch hour, ran out of time for tailpipe diameter	1997	10	134	160
7000685	PIN: KMTPC092A05011596 Assumed low usage bin based on hour meter	UNK			39
7000685	PIN: KMTPC044T01001691	2005	2	987	86
7000685	Matched with BW-145DH3 at spec-check.com Assumed low usage bin based on hour meter	UNK			75
7000685	Called Takeuchi (770-831-0661), Cathy can give year with Serial #	2005	2	751	102
7000685		2006	1	916	102
7000685	PIN: CAT0963CC2DS02214 4TF74625 also listed on equipment	2002	5	1409	174
7000685	*: Oil filter 11783	1997	10	1178	133
7000685	Matched with SkyTrak 6036 Legacy Telehandlers at spec-check.com Assumed low usage bin based on assumed age (as described by SK)	UNK	3?	679?	110
7000685		1998	9	154	81

Establishment Sample #	Usage Bin	HP Bin	BIN	PEMS Selection	PAMS Selection	PAMS Backup	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3
7001911	L	L	LL						
7001911	L	L	LL		x	EQ ID 5			
7001911	L	H	LH	x					
7000685	L	H	LH						
7000685	H	H	HH	X			EQ ID 3	EQ ID 6	EQ ID 7
7000685	L	L	LL						
7000685	H	H	HH		X	EQ ID 5			
7000685	#VALUE!	H	Other						
7000685	H	H	HH						
7000685	#VALUE!	H	Other						
7000685	H	H	HH						
7000685	H	H	HH	X	X	EQ ID 8	EQ ID 6	EQ ID 10	EQ ID 8
7000685	L	H	LH						
7000685	L	L	LL		X	EQ ID 16			
7000685	H	L	HL						
7000685	L	L	LL						
7000685	H	H	HH	X			EQ ID 15	EQ ID 17	EQ ID 12
7000685	H	H	HH						
7000685	H	H	HH		X	EQ ID 19			
7000685	H	H	HH	X			EQ ID 18	EQ ID 20	EQ ID 15
7000685	L	H	LH						
Page 10 of 1110	L	L App W	Equipment Inventory Results, all phases_updated.xls					Phase 1 On-Site inventory	

Establishment Sample #	PEMS Backup 4	PEMS Backup 5	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9
7001911						
7001911						
7001911						
7000685						
7000685	EQ ID 5	EQ ID 2	EQ ID 1	EQ ID 4		
7000685						
7000685						
7000685						
7000685						
7000685						
7000685						
7000685						
7000685						
7000685	EQ ID 8	EQ ID 9	EQ ID 4	EQ ID 9		
7000685						
7000685						
7000685						
7000685						
7000685						
7000685	EQ ID 14	EQ ID 11	EQ ID 12	EQ ID 16	EQ ID 13	
7000685						
7000685						
7000685	EQ ID 17	EQ ID 16	EQ ID 14	EQ ID 19	EQ ID 16	
7000685						
7000685						
7000685						

Establishment Sample #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7000685	4	20	6/12/2007	Hydraulic Pump	AIRMAN SCREW	PBS1855	
7000685	4	21	6/12/2007	Generator	AMIDA	AL4060D4MH	
7000059	1	1	6/13/2007	Crawler Loader	Caterpillar	963C	Yes
7000059	1	2	6/13/2007	Hydraulic Excavator	Komatsu	PC220LC-6L	Yes
7000059	1	3	6/13/2007	Wheel Loader	Komatsu	WA250-1	Yes
7000059	1	4	6/13/2007	Loader Backhoe	Case, LLC	580L	
7000059	1	5	6/13/2007	Bobcat	Ingersoll Rand	863	Yes
7000059	1	6	6/13/2007	Crawler Loader	Caterpillar	953	Yes
7000059	1	7	6/13/2007	Hydraulic Excavator	Komatsu	PC300LC-6LE	Yes
7000059	1	8	6/13/2007	Hydraulic Excavator	Komatsu	PC300LC-7E0	No
7000059	1	9	6/13/2007	Hydraulic Excavator	Komatsu	PC400LC-7E0	Yes
7000008	1	1	6/14/2007	Hydraulic Excavators	Ingersol Rand-Bobcat	331E	Yes
7000008	1	2	6/14/2007	Skid Steer Loader	Case	85XT	Yes
7000008	1	3	6/14/2007	Hydraulic Excavators	Ingersol Rand-Bobcat	331E-*D	No
7000008	1	4	6/14/2007	Backhoe	JC Bamford	210S	No
7000008	1	5	6/14/2007	Compact Skid Steer Loader	Case	1840	No
7000008	1	6	6/14/2007	Aggregate Crusher	Rockford Power Take off	IVECO -AiT0	No
7001285	1	1	6/14/2007	Compact Skid Steer Loader	Ingersol Rand Bobcat	863	No
7000619	1	1	6/27/2007	Crawler Loader	Caterpillar	953C	Yes
7000619	1	2	6/27/2007	Compact Crawler Loader	Ingersol Rand Bobcat	T250	No

Establishment Sample #	Hour Meter	Pipe OD (inches)	Ownership (if Known)	PAMS Elig.	PEMS Elig.
7000685	1479.1	Unk	Owned	Y	?
7000685	6681.0	Unk	Owned	Y	Y
7000059	??		Unk	Y	Y
7000059	10444.4		Unk	Y	Y
7000059	5743.0		Unk	Y	Y
7000059	5635.4		Owned	Y	Y
7000059	4705.6		Owned	Y	N
7000059	11623.4		Unk	Y	Y
7000059	??		Unk	Y	Y
7000059	??		Unk	Y	Y
7000059	??		Unk	Y	Y
7000008	1916.3		Prime	Y	Y
7000008	1081.4		Prime	Y	Y
7000008	2711.5		Prime	Y	Y
7000008	2801.8		Prime	Y	Y
7000008	1596		Prime	Y	Y
7000008	??		Prime	N	N
7001285	1593.3		??		
7000619	3762.8		Prime	Y	Y
7000619	1166.6		Prime	Y	N

Establishment Sample #	Field Observations / Comments	Model Year	Age	Usage (hrs/yr)	HP
7000685	Matched with Airman PDS185S Portable Air Compressors at spec-check.com; HP unavailable	UNK			
7000685	No match found	UNK			
7000059	Digital LCD, NO Key, no hours on filter	2002	5	#VALUE!	174
7000059	HP based on PC220LC-6	1996	11	949	158
7000059		1996	11	522	144
7000059	Says WP021 - Attachment Number	1999	8	704	71
7000059	Says WP054 - Attachment Number				
7000059	HP Based on a Bobcat 863-G Series Skid Steer Loader	1999	8	588	73
7000059	HP Based on a Caterpillar 953B	1985	22	528	125
7000059	Few Areas for PEMS, See Photos, Tailpipe standoff HP Based on PC300LC-6	2000	7	#VALUE!	232
7000059	Digital LCD, NO Key, 398 hours on filter, No date HP based on PC300LC-7	2006	1	#VALUE!	254
7000059	Could not find filter HP Based on PC400LC-7	2006	1	#VALUE!	347
7000008	Preparing to Trade in, Rental Fleet written on Side; 29.8 kW, Note Next Service 2615	1999	8	240	40
7000008		2000	7	154	80
7000008	Model Year 2001; HP 29.8 kW The Bobcat 331 D-series and 333 E-series both have a 40 hp rating	2001	6	452	40
7000008	PIN 0761644; 47.4 kW; yr -1977; New Service 3536 hours HP based on JCB Backhoe Loader 210S Series 3	1977	30	93	66
7000008	Obtain Model and Serial Number from picture; It says 1840 on Side	1998	9	177	54
7000008	Power Take off mounted on Aggregate Crusher,	??	#VALUE!	#VALUE!	Other
7001285	Equipment ID 455021 on Side in Paint HP Based on a Bobcat 863-G Series Skid Steer Loader	??	??	??	73
7000619	Tag indicates: Model: 3126, Serial # BMA15933, Arrangement 171-7613	2004	3	1254	121
7000619		??	??	??	??

Establishment Sample #	Usage Bin	HP Bin	BIN	PEMS Selection	PAMS Selection	PAMS Backup	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3
7000685			Other						
7000685			Other						
7000059	L	H	LH						
7000059	H	H	HH	X			EQ ID 2	EQ ID 3	EQ ID 1
7000059	L	H	LH		X	EQ ID 2			
7000059	H	L	HL						
7000059	L	L	LL		X	EQ ID 9			
7000059	L	H	LH	X			EQ ID 6	EQ ID 8	EQ ID 9
7000059	L	H	LH						
7000059	L	H	LH						
7000059	L	H	LH						
7000008	L	L	LL	X			EQ ID 3	EQ ID 1	EQ ID 3
7000008	L	L	LL		X	EQ ID 2			
7000008	L	L	LL		X	EQ ID 5			
7000008	L	L	LL	X			EQ ID 1	EQ ID 4	EQ ID 1
7000008	L	L	LL						
7000008	Other	Other	Other						
7001285				X	X				
7000619	L	H	LH						
7000619									

Establishment Sample #	PEMS Backup 4	PEMS Backup 5	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9
7000685						
7000685						
7000059						
7000059	EQ ID 3	EQ ID 2	EQ ID 4	EQ ID 4		
7000059						
7000059						
7000059						
7000059						
7000059	EQ ID 9	EQ ID 7	EQ ID 7	EQ ID 9		
7000059						
7000059						
7000059						
7000008	EQ ID 2					
7000008						
7000008						
7000008	EQ ID 5					
7000008						
7000008						
7001285						
7000619						
7000619						

Establishment Sample #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model
7003854	1	1	9/5/2007	Forklift	Case	586D
7003868	1	1	9/5/2007	Compact Track Loader	Mustang	MTL16
7003868	1	2	9/5/2007	Track Loader???? (verify)	Case	CX240
7003868	1	3	9/5/2007	Front End Loader	Case	580 Super L
7003868	1	4	9/5/2007	Forklift	Ingersoll Rand	VR-90B
7003868	1	5	9/5/2007	Crane	G Crane, Grove Worldwide	RT640C
7003937	1	1	9/6/2007	Compact Track Excavator	John Deere	27C ZTS
7003937	1	2	9/6/2007	Compact Track Excavator	John Deere	27C ZTS
7003937	1	3	9/6/2007	Compact Track Excavator	Ingersoll Rand	316**A
7003937	1	4	9/6/2007	Backhoe Loader	John Deere	310SG
7003597	1	1	9/7/2007	Endloader	Caterpillar	962G
7003597	1	2	9/7/2007	Roller / Compactor	Rosco	Hydrapac Roller
7003597	1	3	9/7/2007	Roller / Compactor	Hyster	C340C
7003597	1	4	9/7/2007	Roller / Compactor	Hyster	C330A
7003597	1	5	9/7/2007	Paver	Blaw-Knox	PF-410
7003597	1	6	9/7/2007	Paver	Blaw-Knox	PF-400

Establishment Sample #	Serial # Verified?	Model Year	HP	Hour Meter	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7003854	Yes	1985	63	1578.5	Y	Y	1
7003868	No	??	66	532.8	Y	N	0
7003868	Yes	2003	163	4148.8	Y	Y	1
7003868	Yes	1996	80	6107.3	Y	Y	1
7003868	Yes	1997	113	1359.4	Y	N	0
7003868	Yes	1999	152	1333.9	Y	Y	1
7003937	Yes	2003	32	1259.1	Y	N	0
7003937	Yes	2000	32	1788.0	Y	N	0
7003937	No	Unk	10	471.3	Y	N	0
7003937	Yes	2005	89	1857.9	Y	Y	1
7003597	No	1999	200	8357.1	Y	Y	1
7003597	No	1988	unk	4640.3	Y	N	0
7003597	No	1997	83.0	see notes	Y	Y	1
7003597	No	1978	47.0	5586.6	Y	N	0
7003597	No	1997	105.0	see notes	Y	N	0
7003597	No	1981	unk	3214.9	Y	Y	1

Establishment Sample #	Field Observations / Comments	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)
7003854	basic yard work, cleaning, loading, etc.	22	72	1.5	Prime
7003868	This is a rental unit, not sure if it's OK to do PAMS instrumentation, probably not - HP from vehicle tag	#VALUE!	#VALUE!	2"	Temp Rental
7003868		4	1037	4" x 5.5"	Prime
7003868		11	555	2.5" x 5"	Prime
7003868	Footprint for PEMS is probably too small, 22" x 33", plus a grate obscures the exhaust pipe (shown in photo)	10	136	2"	Prime
7003868	This is at another location at site, stored now. Mfr is Grove, US, LLC, from Shady Grove, PA	8	167	4" x 5.5"	Prime
7003937	Isuzu engine, 3 cylinder, service note indicated 1082 hours on 1/30/07	4	315	1.5"	Prime
7003937		7	255	1.5"	Prime
7003937	*Ingersoll Rand: aka Bobcat	#VALUE!	#VALUE!	1.25"	Prime
7003937	Creampuff, see pictures. Damage during PAMS instrumentation a slight concern here. Also, no model listed on equipment or ID tag (see	2	929	2" x 4.25"	Prime
7003597	Est equip ID is 57-1. I could not measure pipe (equipment was running), but pipe was large (visual estimate). This piece of equipment is always used at the establishment for loading material into the onsite asphalt plant. Model year taken from establishment records.	8	1045	6" to 8" (notes)	Prime
7003597	Est Equip ID is 33. No serial number on this equipment any longer (painted over/obscure). I'm calling it "0000". Exhaust pipe obscured by grate (see pik). "Ruffneck" label on front, no other IDs on equipment, but equipment log provided by contact shows equipment as "Rosco Hydrapac Roller". Model year taken from establishment records.	19	244	2"	Prime
7003597	Establishment equipment ID is 38 . Hour meter is inaccessible (covered by locked plate), but oil filter handwriting indicates service with 1872 hours on 7/31/07. Model year taken from establishment records.	10	unk	1.75"	Prime
7003597	Est equipment ID is 36. Difficult to read serial #, some "6"s may be "8"s. Model year taken from establishment records.	29	193	1.75"	Prime
7003597	Est equipment ID is 45. Hour meter is inaccessible (covered by locked plate), but oil filter handwriting indicates service with 4771 hours (but service date is illegible). ESTAB CONTACT INDICATES THIS IS USED A LOT. Model year taken from establishment records.	10	unk	3.25" x 4.25"	Prime
7003597	Est equipment ID is 31. Exhaust pipe is rusty, but the visible portion did not appear to be rusted entirely through. Model year taken from establishment records.	26	124	3"	Prime

Establishment Sample #	Usage Bin	HP Bin	BIN	PEMS Selection	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1
7003854	L	L	LL	X	X					
7003868	#VALUE!	L	#VALUE!							
7003868	H	H	HH	X	X	X	X		X	X
7003868	L	L	LL					X		
7003868	L	H	LH				X			
7003868	L	H	LH	X	X	X		X	X	X
7003937	L	L	LL			X	X			
7003937	L	L	LL					X	X	
7003937	#VALUE!	L	#VALUE!		X	X				
7003937	H	L	HL	X	X		X	X	X	
7003597	H	H		X	X					
7003597	Other	L					X			
7003597	L	Other				X				X
7003597	L	L			X					
7003597	Other	H							X	
7003597	L	Other	App W	X	Inventory Results, all phases_updated.xls			X	Phase 2 On-Site inventory	

Establishment Sample #	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9
7003854								
7003868								
7003868	X							
7003868	X							
7003868								
7003868								
7003937								
7003937								
7003937								
7003937								
7003597								
7003597								
7003597								
7003597								
7003597								
7003597								

Establishment Sample #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model
7003597	1	7	9/7/2007	Paver	Blaw-Knox	PF-500
7003597	1	8	9/7/2007	Roller / Compactor	Bomag	BW120 AD-3
7003597	2	9	10/3/2007	Crawler Dozer	Deere	550H
7003597	2	10	10/3/2007	Roller / Compactor	Bomag	BW120AD
7003597	2	11	10/3/2007	Roller / Compactor	Hyster	C830B
7003597	2	12	10/3/2007	Paver	Blaw-Knox	PF410
7003597	2	13	10/3/2007	Roller / Compactor	Hyster	C830B
7003597	2	14	10/3/2007	Tractor Loader	Case	570LXT
7003597	2	15	10/3/2007	Motor Grader	Caterpillar	12H
7003597	2	16	10/3/2007	Motor Grader	Caterpillar	130G
7003702	1	1	9/7/2007	Skid Steer Front End Loader	Caterpillar	246B
7003702	2	2	9/15/2007	Forklift	Skytrak	6042
7003310	1	1	9/10/2007	Skid Steer Compact Loader	Ingersoll Rand/ Bobcat	S300
7002523	1	1	9/11/2007	Track Excavator	Caterpillar	345C
7002523	1	2	9/11/2007	Track Excavator	Caterpillar	325BL
7002523	1	3	9/11/2007	Track Excavator	Komatsu	PC400LC
7002523	1	4	9/11/2007	Articulated dumptruck	Caterpillar	D400E
7002523	1	5	9/11/2007	Front End Loader	John Deere	410E
7002523	1	6	9/11/2007	Roller / Compactor	Caterpillar	CS-563D
7002523	1	7	9/11/2007	Forklift	CASE	586
7002523	1	8	9/11/2007	Track Grader	John Deere	650H-LGP

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Establishment Sample #	Serial # Verified?	Model Year	HP	Hour Meter	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7003597	No	1989	unk	see notes	Y	Y	1
7003597	Yes	1995	33.0	see notes	Y	N	0
7003597	Yes	1999	80.0	n/a (locked	Y	Y	1
7003597	No	Unk	33.0	n/a (locked	Y	N	0
7003597	No	Unk	107.0	n/a (locked	Y	N	0
7003597	No	Unk	105.0	n/a (locked	Y	N	0
7003597	No	Unk	107.0	4211.3	Y	N	0
7003597	Yes	1997	71.9	n/a (locked	Y	Y	1
7003597	Yes	1996	140.0	4838.6	Y	Y	1
7003597	No	Unk	135.0	n/a (locked cover)	Y	Y	1
7003702	Yes	2004	89	188.1	Y	N	0
7003702		2005		612.0	Y	Y	1
7003310	Yes	2005	81	681.1	Y	N	0
7002523	No	Unk	345	69.0	Y	Y	1
7002523	Yes	1997	168	11192.4	Y	Y	1
7002523	No	2006	330	100.7	Y	Y	1
7002523	Yes	1999	405	8909.2	Y	Y	1
7002523	Yes	1999	90	30.0	Y	Y	1
7002523	Yes	2002	145	1469.4	Y	Y	1
7002523	No	Unk	63	NA	Y	N	0
7002523	Yes	1999	90	10648.1	Y	Y	1

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Phase 2 On-Site inventory

Establishment Sample #	Field Observations / Comments	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)
7003597	Est equipment ID is 32. Hour meter is inaccessible (covered by locked plate), but oil filter handwriting indicates service with 382 hours on 4/4/06. I'm skeptical of the "382" hour value, though. Model year taken from establishment records.	18	unk	3"	Prime
7003597	Est equipment ID is 35. Unknown hours, both hour meter and oil filter are inaccessible under locked cover. ESTAB CONTACT INDICATES THIS IS USED A LOT. Model year taken from establishment records. *Model year changed from 1994 to 1995 based on serial number.	12	unk	1.25" x 3"	Prime
7003597	"LGP" letters on side of equipment (not "LPG"), and engine tag and fuel cap confirm engine is diesel	8	unk	4"	Prime
7003597		unk	unk		Prime
7003597	36" x 36" roof, which would fit PEMS, but no room for generator (it would have to be mounted near operator.	unk	unk	2.5"	Prime
7003597		unk	unk		Prime
7003597	36" x 36" roof, which would fit PEMS, but no room for generator (it would have to be mounted near operator. Also, exhaust tip broken off	unk	unk		Prime
7003597	Horsepower listed (in Equipment Watch) is wrong, not 719, it is 71.9 (per Carl Fulper 1/28/08)	10	unk	2.5" x 4"	Prime
7003597		11	440	4.5" x 5.5"	Prime
7003597		unk	unk	4" x 6"	Prime
7003702	With turbo.	3	62.7	2" x 2.75"	Prime
7003702	PEMS space available on roof of cab. Exhaust below frame @ rear on the right	2		3"	Prime
7003310	Turbo	2	341	2.5"	Prime
7002523	No Marking on oil filter, new equipment, rental equipment	unk	unk	8" x 11"	
7002523	Pipe is elliptical cut	10	1119	4" X 6"	Prime
7002523	Rental equipment	1	101	Unk (> 6")	
7002523	Rental equipment	8	1114	61/4"	
7002523	Turbo 4X4, backhoe loader, Pipe is elliptical cut	8	4	2.5" X 5"	Prime
7002523	Pipe is elliptical cut	5	294	4"X6"	Prime
7002523	Hour meter not found, only date on oil filter, no hour/meter reading found	unk	unk	2"	Prime
7002523	Crawler dozer	8	1331	5"	Prime

Inventory

Establishment Sample #	Usage Bin	HP Bin	BIN	PEMS Selection	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1
7003597	Other	Other					X			X
7003597	Other	Other				X				
7003597	Other	L	OtherL					X		X
7003597	Other	L	OtherL		X				X	
7003597	Other	H	OtherH			X				
7003597	Other	H	OtherH				X			
7003597	Other	H	OtherH							
7003597	Other	L	OtherL	X				X	X	
7003597	L	H	LH		X	X				X
7003597	Other	H	OtherH	X			X			
7003702	L	L	LL		X					
7003702					X					
7003310	L	L	LL		X					
7002523	Other	H	Other						X	
7002523	H	H	HH	X	X					
7002523	L	H	LH							
7002523	H	H	HH				X	X		X
7002523	L	L	LL			X				
7002523	L	H	LH							
7002523	Other	L	Other							
7002523	H	L	HL							

Equipment Inventory Results_all phases_updated.xls

Phase 2 On-Site inventory

Establishment Sample #	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9
7003597								
7003597								
7003597			X					
7003597								
7003597								
7003597								
7003597								
7003597	X							
7003597	X	X	X					
7003597		X						
7003702								
7003702								
7003310								
7002523								
7002523								
7002523								
7002523		X						
7002523								
7002523	X							
7002523								
7002523			X					

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Phase 2 On-Site inventory

Establishment Sample #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model
7002523	1	9	9/11/2007	Mini Track Excavator	IHI	25NX
7002523	1	10	9/11/2007	Front End Loader	Caterpillar	416B
7002523	1	11	9/11/2007	Skid steer loader	Mustang	960
7002523	1	12	9/11/2007	Grader dozer	Caterpillar	D5HXL
7002523	1	13	9/11/2007	Tired grader	Caterpillar	CP563E
7002523	1	14	9/11/2007	Track dozer	Caterpillar	D6RXL
7002523	1	15	9/11/2007	Articulated dumptruck	Caterpillar	D400E
7002523	1	16	9/11/2007	Motor Grader	Caterpillar	140H
7002523	1	17	9/11/2007	Tractor w/compactor	CASE	7220
7002523	2	1	9/27/2007	Excavator	Caterpillar	325D
7002523	2	2	9/27/2007	Track dozer	Caterpillar	D6HXL
7002523	2	3	9/27/2007	Track Dozer w/ grader	Caterpillar	D8H
7002523	2	4	9/27/2007	Track Dozer w/ grader	Caterpillar	D8H
7002523	2	5	9/27/2007	Track Dozer w/ grader	Caterpillar	D8H
7002523	2	6	9/27/2007	Track Dozer	Caterpillar	963C
7002523	2	7	9/27/2007	Track Dozer	Caterpillar	70C Challenger
7002523	2	8	9/27/2007	Tractor w/compactor	Case	MX285
7002523	2	9	9/27/2007	Wheeled Front Loader	John Deere	544H
7002523	2	10	9/27/2007	Excavator	Hitachi	EX400LC
7002523	2	11	9/27/2007	Grader	Hamm	2322DS
7003928	1	1	9/11/2007	Forklift	LULL	644B-42
7003858	1	1	9/14/2007	Crawler/dozer	Caterpillar	D4CXL
7003858	1	2	9/14/2007	Mini Roller/compactor	Ingersoll- Rand	DD-22
7003858	1	3	9/14/2007	Mini Excavator	John Deere	50D
7003858	1	4	9/14/2007	Forklift	Caterpillar	TH83
7003858	1	5	9/14/2007	Track Excavator	John Deere	120C

Establishment Sample #	Serial # Verified?	Model Year	HP	Hour Meter	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7002523	No	Unk	Unk	725.2	Y	N	0
7002523	Yes	1993	74	9359.00	Y	Y	1
7002523	Yes	1995	Unk	5500.4	Y	N	0
7002523	No	1995	120	7900.4	Y	Y	1
7002523	No	2006	143	46.1	Y	Y	1
7002523	Yes	1997	175	1253.8	Y	Y	1
7002523	Yes	2001	405	9551.50	Y	Y	1
7002523	Yes	2001	150	6271.9	Y	Y	1
7002523	No	Unk	Unk	7465.0	Y	Y	1
7002523	Yes	2006	204	1261.4	Y	Y	1
7002523	Yes	1994	189	975.6	Y	Y	1
7002523	Yes	1974	unk	2501.3	Y	Y	1
7002523	No	Unk	unk	Unk	Y	Y	1
7002523	Yes	1967	unk	Unk	Y	Y	1
7002523	Yes	2002	174	4987.5	Y	Y	1
7002523	Yes	1994	285	1940.7	Y	Y	1
7002523	No	Unk	Unk	1086.9	Y	Y	1
7002523	Yes	2003	130	6637.0	Y	Y	1
7002523	No	Unk	275	5733.4	Y	Y	1
7002523	No	Unk	90	3874.7	Y	Y	1
7003928	No	1998	80	3626.8	Y	Y	1
7003858	Yes	1996	80	5035.8	Y	Y	1
7003858	No	Unk	Unk	1341.8	Y	Y	1
7003858	Yes	2005	39.9	1706.2	Y	Y	1
7003858	Yes	2002	101	3009.5	Y	Y	1
7003858	No	2006	89	222.0	Y	Y	1

Establishment Sample #	Field Observations / Comments	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)
7002523	Rental equipment, no room for PEMS	unk	unk	3'	
7002523	Turbo, service tag indicates 9206 hrs on 3/20/07	14	669	3"	Prime
7002523	Service tag indicates 5461 hours on 8/9/07, Pipe is elliptical cut	12	458	1.5" X 3"	Prime
7002523		12	658	5"X9"	Prime
7002523	Pipe is tough to instrument, pipe is standoff	1	46	5"X7"	Prime
7002523	Pipe is standoff	10	125	4"X5"	Prime
7002523	Articulated dump truck, not sure if rental or owned by prime	6	1592	61/4"	
7002523		6	1045	4"X5"	Prime
7002523	Tractor (maybe) pulling compacting rollers/drums @ rear	Unk	Unk	5"	Prime
7002523	HP based on a Cat 325D L and taken from http://www.spec-check.com/quickfinder-results.cfm	1	1261	4"	Prime
7002523		13	75	4"	Prime
7002523		33	76	5"	Prime
7002523		unk	unk	5"	Prime
7002523		40	unk	6"	Prime
7002523		5	998	3.5"	Prime
7002523	HP taken from http://www.tractordata.com/td/td922.html	13	149	5"	Prime
7002523	Tractor (maybe) pulling compacting rollers/drums @ rear. Rental equipment.	unk	unk	4.5" inner pipe; 7.0" outer pipe	Rental
7002523		4	1659	4"	Prime
7002523		unk	unk	5"	Prime
7002523	HP taken from http://www.equipmenttraderonline.com/caddetail.html?ad-cache/9/5/7/83030557.htm	unk	unk	2.5"	Prime
7003928	Exhaust pipe is located under the frame at the rear. The cab roof is approx. 4' X2.5', PEMS questionable, the cab roof is the only place where PEMS equipment can be stationed and location is questionable. Equipment not really eligible for PEMS test.	9	403	3"	Prime
7003858	No establishment ID on this equipment. Pipe is elliptical cut	11	458	2.5" x 2.75"	Prime
7003858	Hour meter is fogged up and hard to read. No equipment tag with serial/PIN info found on the equipment. Exhaust pipe is located under the frame on left	unk	unk	2"	Prime
7003858	pipe is located towards the rear of the equipment right under the cab	2	853	2"	Prime
7003858	No establishment ID on this equipment. Pipe is elliptical cut	5	602	2" X 5"	Prime
7003858	This is a rental equipment. Contact is hesitant to install PEMS/PAMS on this equipment. Pipe is elliptical cut.	1	222	3" X 5"	Prime

Establishment Sample #	Usage Bin	HP Bin	BIN	PEMS Selection	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1
7002523	Other	Other	Other							
7002523	L	L	LL						X	
7002523	L	Other	Other		X					
7002523	L	H	LH							
7002523	L	H	LH	X						
7002523	L	H	LH				X			
7002523	H	H	HH			X		X		X
7002523	H	H	HH							
7002523	Other	Other	Other							
7002523	H	H	HH	X			X	X	X	
7002523	L	H	LH		X					
7002523	L	Other	Other							X
7002523	other	Other	Other							
7002523	Other	Other	Other							
7002523	H	H	HH			X		X	X	
7002523	L	H	LH	X	X		X			
7002523	Other	Other	Other							
7002523	H	H	HH							X
7002523	Other	H	Other			X				
7002523	Other	L	Other							
7003928	L	L	LL	X	X					
7003858	L	L	LL				X			X
7003858	other	other	other						X	
7003858	H	L	HL	X	X	X		X		
7003858	L	H	LH				X		X	X
7003858	L	L	LL			X				

Establishment Sample #	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9
7002523								
7002523								
7002523								
7002523								
7002523								
7002523		X						
7002523								
7002523	X							
7002523			X					
7002523	X							
7002523			X					
7002523								
7002523			X					
7002523								
7002523								
7002523	X							
7002523			X					
7002523		X						
7002523								
7002523								
7002523	X							
7002523			X					
7002523		X						
7002523								
7003928								
7003858								
7003858		X						
7003858	X		X					
7003858		X						
7003858	X		X					

Establishment Sample #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model
7003858	1	6	9/14/2007	Tired Loader	CASE	480F LL
7003010	1	1	9/14/2007	Forklift	Pettibone	6044
7002571	1	1	9/14/2007	Concrete pump truck	Putzmister	BSF36.16H
7002571	1	2	9/14/2007	Concrete pump truck	Schwing	BPL1200 HDR-23 KVM32/28XLG
7002535	1	1	9/13/2007	Front End Loader	Case	580 Super L
7002535	2	2	9/13/2007	Front End Loader	Case	580 Super M
7002586	1	1	9/18/2007	Boom Truck	Genie	S60
7002602	1	1	9/19/2007	Forklift	Skytrak	8042
7002602	1	2	9/19/2007	Lift	JLG	601S
7002602	1	3	9/19/2007	Forklift	JLG	6042
7002522	1	1	9/20/2007	Lift	Genie	S-65
7002522	1	2	9/20/2007	Skid Steer Front End	Mustang	MTL16
7003648	1	1	9/21/2007	Trencher/Excavator	Ditch Witch	5110
7003731	1	1	10/1/2007	Skid Steer Front End	Bobcat	773
7002867	1	1	10/1/2007	Excavator	Daewoo	Solar 130 LC-V
7002867	1	2	10/1/2007	Hydraulic Crane	Grove	TM120T
7002867	1	3	10/1/2007	Skid Steer Fork Lift	Bobcat	873
7002867	1	4	10/1/2007	Backhoe Loader	John Deere	410D

Establishment Sample #	Serial # Verified?	Model Year	HP	Hour Meter	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7003858	Yes	1992	63	5147.0	Y	Y	1
7003010	Yes	2006	110	2486.9	Y	Y	1
7002571	No	1998	Unk	2059.5	N	N	-9
7002571	No	2002	unk	5209.5	N	N	-9
7002535	Yes	1999	90	5842.5	Y	Y	1
7002535	Yes	2002	90	3624.7	Y	Y	1
7002586	Yes	1994	49	5277.5	Y	N	0
7002602	Yes	1997	110	5715.1	Y	N	0
7002602	Yes	1985	47	914.4	N	N	-9
7002602	No	Unk	99	477.9	Y	N	0
7002522	No	2007	75	116	Y	N	0
7002522	Yes	1992	66	482.7	Y	N	0
7003648	Yes	1997	58	2111.8	Y	N	0
7003731	Yes	1999	46	1512.0	Y	N	0
7002867	Yes	1997	108	2587.0	Y	N	0
7002867	No	Unk	97	64.9	Y	N	0
7002867	Yes	1999	73	4451.9	Y	N	0
7002867	Yes	1996	75	7626.2	Y	Y	1

Establishment Sample #	Field Observations / Comments	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)
7003858	4X4. Onroad plates on this equipment. Operator indicated that this equipment is at times drive on the road from one work site to another as long as they are close. Pipe is elliptical cut.	15	343	2.5" x 5"	Prime
7003010	Exhaust pipe is located below the frame. Pipe is slightly dented. Equipment doesn't have an establishment/contractor equipment ID. Use model number when talking to site contact. May be PEMS possible only if exhaust can be routed around lift arm.	1	2487	2"	Prime
7002571	Concrete pump on a onroad mack truck. Pipe is elliptical. No space for PEMS install. ONROAD, MAY BE INELIGIBLE!!!	unk	unk	5"X8"	Prime
7002571	Concrete pump on a onroad mack truck. Pipe is elliptical. No space for PEMS install - ONROAD, MAY BE INELIGIBLE!!!	unk	unk	5"X8"	Prime
7002535	Pipe is elliptical cut. Equipment will be used at different job sites. Contact site contact before arriving at the site	8	730	2.5"X5"	Prime
7002535	Pipe is elliptical cut. Equipment will be used at different job sites. Contact site contact before arriving at the site	5	725	2.5"X5"	Prime
7002586	This equipment may not be used for 3-4 weeks. It is fairly dirty and does not appear to have regular maintenance performed. No surfaces large enough for PEMS unit.	13	406	2"	Prime
7002602	B8400 is the model number listed on the equipment plate and 8042 is	10	572	2.5"	Prime
7002602	Not a diesel equipment. LP Gas. Pipe is elliptical cut.	22	42	3"X5"	Rental
7002602	Rental equipment. No space for PEMS	unk	unk	3"	Rental
7002522	4X4. Equipment is rental. Pipe is elliptical cut.	0	1	5"X6"	Rental
7002522	Pipe is standoff. Actual pipe is 2"X3", elliptical cut.	15	32	2"X3"	Prime
7003648	Establishment estimated HP=50. Equipment is in repair shop abt 0.5	10	211	2"X2.5"	Prime
7003731	Exhaust pipe is broken and hangs loose from the muffler. Apparently	8	189	2.5" X 3"	Prime
7002867	No space for PEMS; 2587 hours on 9/25/2007 (oil filter marking). Pipe is elliptical cut.	10	259	3"X5"	Prime
7002867	Onroad vehicle. Exhaust pipe appears to be standoff (not sure) HP from website: http://www.manitowoccranegroup.com/MCG_GRO/Downloads/EN/Archive_Lit_TM.asp	unk	unk	2"	Prime
7002867	Turbo. 3'X2.8' available on roof of the cab, not enough space for PEMS. Pipe is elliptical cut.	8	556	2.5"X5"	Prime
7002867	Turbo 4X4. Space for PEMS on top of the cab. Front end loader with excavator/bucket attachment in the rear.	11	693	2.5"	Prime

Establishment Sample #	Usage Bin	HP Bin	BIN	PEMS Selection	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1
7003858	L	L	LL	X	X			X		
7003010	H	H	HH	X	X					
7002571	Other	Other	Other							
7002571	Other	Other	Other							
7002535	H	L	HL	X	X					
7002535	H	L	HL	X	X					
7002586	L	L	LL	X	X					
7002602	L	H	LH		X					
7002602	L	L	LL							
7002602	H	L	HL		X					
7002522	L	L	LL		X					
7002522	L	L	LL		X					
7003648	L	L	LL		X					
7003731	L	L	LL		X					
7002867	L	H	LH		X	X	X		X	
7002867	H	L	HL				X	X		
7002867	L	L	LL		X				X	
7002867	L	L	LL	X		X		X		

Establishment Sample #	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9
7003858								
7003010								
7002571								
7002571								
7002535								
7002535								
7002586								
7002602								
7002602								
7002602								
7002522								
7002522								
7003648								
7003731								
7002867								
7002867								
7002867								
7002867								

Establishment Sample #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model
7002562	1	1	10/2/2007	Excavator	Link-Belt	2800
7002562	1	2	10/2/2007	Crawler Tractor	Caterpillar	75C
7002562	1	3	10/2/2007	Crawler Dozer	Caterpillar	D4H Series II
7002562	1	4	10/2/2007	Front End Loader	Volvo BM	L70C
7002562	1	5	10/2/2007	Tractor	John Deere	4850
7002745	1	1	10/2/2007	Air compressor	Caterpillar	3406
7002745	1	2	10/2/2007	Drill engine	Cummins	4B-39
7003705	1	1	10/3/2007	Skid Steer Compact Loader	New Holland	LX885
7003655	1	1	10/3/2007	Skid Steer Compact Loader	GEHL	4840
7002944	1	1	10/4/2007	Skid Steer Compact Loader	Bobcat	T300
7002944	1	2	10/4/2007	Skid Steer Compact Loader	Bobcat	773
7002944	1	3	10/4/2007	Compact Excavator	Bobcat	435HAG

Inventory

Establishment Sample #	Serial # Verified?	Model Year	HP	Hour Meter	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7002562	No	Unk	128	9515.4	Y	Y	1
7002562	No	Unk	325	7085.0	Y	Y	1
7002562	Yes	1986	95	11983.7	Y	Y	1
7002562	Yes	1995	118	12382.4	Y	Y	1
7002562	No	Unk	190	7862.6	Y	Y	1
7002745	No	Unk	Unk	510.2	Y	Y	1
7002745	No	Unk	76	4230.9	Y	Y	1
7003705	Yes	1998	65	1763.2	Y	N	0
7003655	Yes	2005	60	305.4	Y	N	0
7002944	No	Unk	81	150.4	Y	N	0
7002944	Yes	2000	46	384.0	Y	N	0
7002944	No	2005	49	36.1	Y	N	0

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Phase 2 On-Site inventory

Establishment Sample #	Field Observations / Comments	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)
7002562	Escape hatch on roof of cab, uneven surface on roof. Site contact indicated that if we choose to install PEMS on this equipment, he will make sure that the oil and other fluids are full the day before the install, so they will not have to open the escape hatch/roof access while PEMS is sitting on it. Exhaust pipe is elliptical cut.	unk	unk	2.5"X5"	Prime
7002562	The exhaust pipe might be too big for PEMS hose connections, the outer casing of the exhaust pipe should be removed for PEMS install. Site contact was ok with that. Pipe is elliptical cut HP from CAT used equipment Web Site. This is actually classified as Ag equipment. http://catused.cat.com/en/Equipment/CATERPILLAR/Agricultural-Products/75c/For-Sale.aspx	unk	unk	5"X8"	Prime
7002562	Exhaust pipe is deformed, bent and out of shape. Space on roof cab for PEMS install. Exhaust outer casing should be removed for PEMS install.	21	570.6524	6"X10'	Prime
7002562	Ample space on roof of cab for the PEMS install. Site contact indicated that 90% of the vehicle hours are idle hours.	12	1031.867	3"	Prime
7002562	Exhaust pipe has a blow cap at the top/opening of the pipe. Outer casing should be removed for PEMS install. HP is approximated from JD 4850 models seen at http://www.tractorhouse.com/listings/forsale/list.asp?man=JOHN+DEERE&mdl=4850 .	unk	unk	3"	Prime
7002745	Air compressor, site contact indicated that this piece of equipment is rated atleast 400 HP. The equipment plate/tag is painted over and is not legible. The model number in column J might not be accurate.	unk	unk	5"	Prime
7002745	Cummins engine used to push the drill into the ground. Truck mounted.	unk	unk	3"	Prime
7003705	Turbo. Approximately 3'X3' available on roof. Not enough space for PEMS unit. HP from http://www.spec-check.com/quickfinder-results.cfm	9	195.9111	2"	Prime
7003655	2.5'X3' space available on roof of cab. Not enough space for PEMS unit	2	152.7	2"	Prime
7002944	2.5'X3' space available on roof of cab. Not enough space for PEMS unit. Turbo, high flow. HP taken from http://www.spec-check.com/quickfinder-results.cfm	unk	unk	2.5"	Prime
7002944	2.5'X3' space available on roof of cab. Not enough space for PEMS unit. Turbo. Pipe is elliptical cut.	7	55	2" X 2.5"	Prime
7002944	2' X 3' space available on roof. Not enough space for PEMS unit.	2	18	2"	Prime

Establishment Sample #	Usage Bin	HP Bin	BIN	PEMS Selection	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1
7002562	H	H	HH	X						X
7002562	H	H	HH				X		X	
7002562	L	L	LL		X			X		
7002562	H	H	HH	X		X	X	X	X	X
7002562	H	H	HH		X	X				
7002745	H	H	HH	X	X					
7002745	H	L	HL	X	X					
7003705	L	L	LL		X					
7003655	L	L	LL		X					
7002944	other	L	Other					X	X	
7002944	L	L	LL			X	X			
7002944	L	L	LL		X				X	

Establishment Sample #	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9
7002562								
7002562	X							
7002562		X						
7002562	X		X					
7002562		X	X					
7002745								
7002745								
7003705								
7003655								
7002944								
7002944								
7002944								

ase 2 On-Site inventory

Establishment Sample #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model
7002944	1	4	10/4/2007	Tractor	Kubota	L3650
7002944	1	5	10/4/2007	Concrete Pump	Allentown	Pro
7003122	1	1	10/5/2007	Compact skid steer loader	Mustang	2109
7003348	1	1	10/5/2007	Compact skid steer loader	Bobcat	T180
7003474	1	1	10/16/2007	Tractor	Ford	3400
7003474	1	2	10/16/2007	Compacting Roller/Dozer	Caterpillar	CP-433B
7003474	1	3	10/16/2007	Front End Loader	Caterpillar	951C
7003474	1	4	10/16/2007	Front End Loader	Caterpillar	951B
7003474	1	5	10/16/2007	Tractor	International	1586 - ROPS Model No;
7003474	1	6	10/16/2007	Scraper	Caterpillar	613
7003474	1	7	10/16/2007	Front End Loader	Caterpillar	977L
7003474	1	8	10/16/2007	Excavator	Caterpillar	235B
7003474	1	9	10/16/2007	Dozer	Caterpillar	D7G
7003248	1	1	10/16/2007	Skid steer loader	Bobcat	773
7003572	1	1	10/17/2007	Air compressor	Cooper Industries /or Gardner-Denver	D0190JD7A
7002820	1	1	10/17/2007	Backhoe Loader	CASE	580 Super K
7002561	1	1	10/17/2007	Backhoe	Kubota	B7800HSD-F

Establishment Sample #	Serial # Verified?	Model Year	HP	Hour Meter	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7002944	No	Unk	40.5	631.0	Y	N	0
7002944	No	Unk	unk	250.3	Y	Y	1
7003122	No	Unk	99	429.7	Y	N	0
7003348	No	unk	61	983.4	Y	N	0
7003474	No	Unk	unk	0.0	N	N	-9
7003474	No	1991	unk		Y	Y	1
7003474	Yes	Unk	unk	2993.2	Y	Y	1
7003474	No	Unk	unk		Y	N	0
7003474	No	76 - 81	162	3735.2	Y	Y	1
7003474	Yes	1970	unk		Y	N	0
7003474	Yes	Unk	unk	2864.2	Y	Y	1
7003474	Yes	1979	unk		Y	N	0
7003474	Yes	1976	200	1879.1	Y	Y	1
7003248	No	Unk	46	731.1	Y	N	0
7003572	No	1988	unk	2901.1	Y	Y	1
7002820	Yes	1991	80	2932.8	Y	Y	1
7002561	No	2005	30	132.4	Y	N	0

Establishment Sample #	Field Observations / Comments	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)
7002944	4WD. No cab and no space elsewhere to install PEMS unit. Pipe is elliptical cut. HP taken from http://www.tractordata.com/td/td1304.html	unk	unk	2" X 3"	Prime
7002944	Trailer mounted concrete pump. Exhaust pipe has a blow cap on top.	unk	unk	2"	Prime
7003122	2.5'X3' space available on roof of cab, not enough for PEMS install.	unk	unk	2.5"	Prime
7003348	2.5'X2.5' available on roof of cab, not enough space for PEMS unit. Air	unk	unk	2"X3"	Prime
7003474	Hour meter shows '0' hours, no hour markings found anywhere else. No equipment tags found. The serial number in column J was found stamped on the chasis of the tractor, unsure if it is serial number or something else. Also, this equipment has very little access to the engine compartment. Limited access thru side panels. Unless there is another way from below the chasis, there is very limited access for installing a PAMS.			2'	Prime
7003474	3.5'X4' available on roof for PEMS. Pipe is elliptical cut. 410 hours on			2.75"X4"	Prime
7003474	Pipe has rain cap. Approx. 5'X5' available on roof for PEMS. Has some			3.5"	Prime
7003474	No Cab. No hour meter. No equipment tag.			5"	Prime
7003474	Approx. 4'X4' on roof of cab. Year range and HP taken from			3.25"	Prime
7003474	Hour meter seems broken. No hour markings found anywhere.			4.5"	Prime
7003474	Approx 4'X5' on roof of cab. Exhaust pipe blow/rain cap. Couldn't find			5"	Prime
7003474	Cab is locked. No hour meter accesible. Not enough space on roof of			5"	Prime
7003474	Approx. 4.5'X7' space of roof for PEMS. Rain cap on top of exhaust pipe.			5"	Prime
7003248	Turbo			2"X2.5"	Prime
7003572	Trailer mounted. Contact indicated 80 HP. Not sure of the manufacturer/make.			2"	Prime
7002820	4X4. 3.5'X5' space available on roof of cab for PEMS. Exhaust pipe is elliptical cut.			3"X5"	Prime
7002561	4WD. No cab and no space elsewhere to install PEMS. MY taken from Internet search interpolation. HP taken from Kubota website (http://www.kubota.com/h/products/B7800.cfm)			1.25"	Prime

Establishment Sample #	Usage Bin	HP Bin	BIN	PEMS Selection	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1
7002944	Other	L	Other				X	X		
7002944	Other	other	Other	X	X	X				
7003122	Other	L	Other		X					
7003348	Other	L	Other		X					
7003474										
7003474										
7003474										
7003474										
7003474										
7003474										
7003474										
7003474										
7003474										
7003248										
7003572										
7002820										
7002561										

Establishment Sample #	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9
7002944								
7002944								
7003122								
7003348								
7003474								
7003474								
7003474								
7003474								
7003474								
7003474								
7003474								
7003474								
7003474								
7003248								
7003572								
7002820								
7002561								

Est Smpl #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7008555	1	1	6/30/2008	Compact Skid Steer Loader	Ingersol Rand Bobcat	S250 Turbo	Y
7008555	2	2	6/30/2008	Compact Skid Steer Loader	Ingersol Rand Bobcat	S185 Turbo	Y
7008733	1	1	6/30/2008	Compact Skid Steer Loader / Forklift	Melroe Bobcat (division of Clark Equip Co)	843	Y
7008707	1	1	7/1/2008	Compact Excavator	Ingersol Rand Bobcat	337**G	N
7008707	1	2	7/1/2008	Trencher	Charles Machine Works, Ditch Witch	5110DD	Y
7008707	1	3	7/1/2008	Track Dozer	Caterpillar	D6C	N
7008925	1	1	7/1/2008	Track Dozer	Caterpillar	953C	Y
7008925	1	2	7/1/2008	Track Excavator	Caterpillar	312CL	Y
7010229	1	1	7/2/2008	Backhoe	John Deere	410D Turbo	Y
7010229	1	2	7/2/2008	Excavator	Case	1085B	Y
7008423	1	1	7/2/2008	Backhoe	Case	580L	N
7008423	1	2	7/2/2008	Trencher	Charles Machine Works, Ditch Witch	RT115H	Y
7008423	1	3	7/2/2008	Compact Skid Steer Loader	Ingersol Rand Bobcat	873 Turbo	Y
7008423	1	4	7/2/2008	Trencher	Charles Machine Works, Ditch Witch	6510DD	Y
7008423	1	5	7/2/2008	Mini Track Excavator	Charles Machine Works, Ditch Witch	MX502	Y
7008436	1	1	7/3/2008	Backhoe	Case	580 Super M	N
7008436	1	2	7/3/2008	Backhoe	John Deere	110A	N
7008436	1	3	7/3/2008	Backhoe Loader	John Deere	310 SG	Y

Est Smpl #	Model Year	HP	Hour Meter	Hr meter Notes	Oil Filter Hours	Oil Filter Date	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7008555	2004	75	Unk		673.0	12/6/07	Y	N	0
7008555	2002	59	1343.1		None	None	Y	N	0
7008733	1986	54	3731.1		2864.0	None	Y	N	0
7008707	2007	51	149.7		None	None	Y	N	0
7008707	1995	Unk	45.0	X	None	None	Y	N	0
7008707	UNK	140	731.0	X	None	None	Y	Y	1
7008925	1999	121	6412.2				Y	Y	1
7008925	2005	94	1036.0				Y	Y	1
7010229	1995	75	7283.0				Y	Y	1
7010229	1985	unk	8826.3				Y	Y	1
7008423	UNK	73	4296.0				Y	Y	1
7008423	2004	115	485.6				Y	Y	1
7008423	1999	73.5	UNK				Y	N	0
7008423	1990	unk	981.0				Y	N	0
7008423	2004	39.4	2003.3				N	N	-9
7008436	UNK	90	547.0				Y	Y	1
7008436	UNK	41	N/A				Y	Y	1
7008436	2004	91	2499.0				Y	Y	1

Est Smpl #	Field Observations / Comments	Misc. Comments (Office Use Only)
7008555	Hour meter not avail when I inventoried, use oil filter indication - this is reportedly used the most out of the 2 Bobcats. Curtis is the contact for this one	HP taken from http://www.bobcat.com/loaders/product_lines/skid_steer/s250
7008555	Ron is the contact for instrumenting this one.	HP taken from http://www.bobcat.com/loaders/product_lines/skid_steer/s185
7008733	Used year round, but sporadically. 1 or 2 times per week, perhaps, but may sit unused for 3 weeks or so.	HP taken from http://www.bobcat.com/historical_specs/skid_steer/843b_1990
7008707	ISO 14396 Rated power = 38.9 kW, ISO 9249 Rated power = 37.5 kW, @ 2500 RPM	
7008707	Hour meter replaced approx 2 years ago - this is used approx once per month, according to site contact	Usage adjusted to account for hour meter replacement
7008707	Hour meter replaced approx 5 years ago, engine is a 3306	Usage adjusted to account for hour meter replacement
7008925	Cat 953 series are track loaders, not dozers	HP taken from http://www.machinerytrader.com/listings/detail.aspx?OHID=6214272&GUID=34b1e1e837ff4937a48ac2000bcd426f
7008925	Operator had to resume work, so I did not photograph plate ID - PEMS might be tough on this due to small mount surface area (most is required vented)	HP from Caterpillar Performance Handbook, Edition 31, p.14-3
7010229	Operates exclusively on the site for trash and material handling activities, approx 1 hour per day	
7010229	Operates exclusively on the site, approx 1/2 hour per day. Unit is stationary (immobilized), as the transmission is out, so it's used only as a garbage compactor.	
7008423		
7008423		
7008423		
7008423		
7008423	This may be ineligible, < 50 HP	
7008436		
7008436	On trailer, leaving site, I didn't have a key to get in and power up to read the LCD hourmeter, so I could not get hours (wasn't able to open hood to get oil filter inscription, either).	
7008436	Site contact (Russell) reports this one is now used less frequently due to work slowdown (economy)	

Est Smpl #	HP Documentation	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)	Usage Bin	HP Bin	BIN	PEMS Selection
7008555		4	#VALUE!	2.5	Prime	#VALUE!	L	#VALUE!	
7008555		6	224	1.8 x 2.3	Prime	L	L	LL	
7008733		22	170	1.8 x 2.3	Prime	L	L	LL	
7008707		1	150	1.5	Prime	L	L	LL	
7008707		13	23	2.0	Prime	L	H	LH	
7008707		#VALUE!	146	5.0	Prime	L	H	LH	X
7008925		9	712	3 x 5	Prime	H	H	HH	X
7008925		3	345	2 x 3	Prime	L	L	LL	X
7010229		13	560	4 x 3	Prime	L	L	LL	X
7010229		23	384	3"	Prime	L	H	LH	X
7008423		#VALUE!	#VALUE!	2 x 4	Prime	#VALUE!	L	#VALUE!	X
7008423		4	121	3 x 5	Prime	L	H	LH	X
7008423		9	#VALUE!	2.0	Prime	#VALUE!	L	#VALUE!	
7008423		18	55	1.5 x 2.5	Prime	L	H	LH	
7008423		4	501	1.5 x 2	Prime	L	L	LL	
7008436		#VALUE!	#VALUE!	3 x 5	Prime	#VALUE!	L	#VALUE!	X
7008436		#VALUE!	#VALUE!	2.0	Prime	#VALUE!	L	#VALUE!	X
7008436		4	625	3 x 5	Prime	L	L	LL	

Est Smpl #	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5
7008555	X									
7008555	X									
7008733	X									
7008707	X	X								
7008707	X		X							
7008707		X	X							
7008925	X									
7008925	X									
7010229	X									
7010229	X									
7008423	X	X								
7008423		X	X	X	X					
7008423	X		X							
7008423				X	X					
7008423										
7008436	X		X			X				
7008436	X	X					X			
7008436		X	X			X	X			

Est Smpl #	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9	
7008555					
7008555					
7008733					
7008707					
7008707					
7008707					
7008925					
7008925					
7010229					
7010229					
7008423					
7008423					
7008423					
7008423					
7008423					
7008436					
7008436					

Est Smpl #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7008597	1	1	7/3/2008	Compact Track Loader	Ingersol Rand Bobcat	T250	N
7008597	1	2	7/3/2008	Compact Track Loader	Ingersol Rand Bobcat	T190	N
7009091	1	1	7/3/2008	Scraper	Caterpillar	627	N
7009091	1	2	7/3/2008	Mulch Spreader	Finn Equip Co	Unk	N
7009091	1	3	7/3/2008	Track Excavator	Bucyrus - Erie	Unk	N
7009091	1	4	7/3/2008	Unknown	Northwest	28D	N
7009091	1	5	7/3/2008	Track Dozer	Caterpillar	D7	N
7009091	1	6	7/3/2008	Track Dozer	Caterpillar	D6C	N
7009091	1	7	7/3/2008	Track Excavator	Hein Werner	C14B	Y
7009091	1	8	7/3/2008	Track Dozer	Caterpillar	D7	N
7009091	1	9	7/3/2008	Bucket Loader	JC Bamford	Unk	N
7009091	1	10	7/3/2008	Compressor	Caterpillar	Unk	N
7009091	1	11	7/3/2008	Scraper	Galion	Unk	N
7009247	1	1	7/7/2008	Mini Track Excavator	LBX	75	N
7009247	1	2	7/7/2008	Skid Steer Loader	John Deere	270 Series II	Y

Est Smpl #	Model Year	HP	Hour Meter	Hr meter Notes	Oil Filter Hours	Oil Filter Date	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7008597	2008	81	N/A				Y	N	0
7008597	2008	61	N/A				Y	N	0
7009091	UNK	330	Unk				Y	Y	1
7009091	UNK	unk	313.5	X			Y	Y	1
7009091	UNK	unk	2401.8				Y	Y	1
7009091	UNK	unk	Unk				Y	Y	1
7009091	UNK	200	Unk				Y	Y	1
7009091	UNK	140	Unk				Y	Y	1
7009091	1979	unk	Unk				Y	Y	1
7009091	UNK	200	5043.3				Y	Y	1
7009091	UNK	unk	Unk				Y	Y	1
7009091	UNK	unk	487.8				Y	Y	1
7009091	UNK	unk	Unk				Y	Y	1
7009247	UNK	unk	1815.6				Y	N	0
7009247	2003	77	Unk		574.0	1/31/06	Y	N	0

Est Smpl #	Field Observations / Comments	Misc. Comments (Office Use Only)
7008597	Both Bobcats were on trailers, no keys, so I didn't get hour meter readings. Trailer ramps prevented opening engine hatch to read oil filters.	
7008597	Both Bobcats were on trailers, no keys, so I didn't get hour meter readings. Trailer ramps prevented opening engine hatch to read oil filters.	
7009091	In weeds, could not find S/# tag or hour meter. Hasn't run for a long time (contact says inactive for 2 years)	
7009091	In weeds, I did not see a serial # on the chassis or body, but the engine tag read: Rockford (Borg Warner), Model PTA 31124, Serial # 519455. Equipment hasn't run for a long time. Hour meter appears to have been recently replaced.	
7009091	Could not find S/# tag. Equipment appears to have not run for a long time (in weeds). Conact hasn't cranked for a couple years.	
7009091	Could not find S/# tag. Equipment appears to have not run for a long time (in weeds)	
7009091	Could not find hour meter. Equipment appears to have not run for a long time (in weeds)	
7009091	Serial # tag eroded and painted, illegible. Equipment appears to have not run for a long time (in weeds)	
7009091	Could not find hour meter. Equipment appears to have not run for a long time (in weeds)	
7009091	This one appears to be used. Engine is a 3036, cannot find hour meter, I didn't open engine compartment to try to find oil filter.	
7009091	Here are the #s I could read off the tag: 14BN2057 / 326175 / 7 LD / 137832 / P I couldn't find hour meter. This one appears to be used.	
7009091	Here are the #s I could read off the tag: D08000241E1BA 500029 150 This one appears to be used.	
7009091	The hour meter was behind a cab door with a broken handle, I could not open the cab door to read the meter. This equipment appears to be in use.	
7009247	Mfr # 07503-1172. Purchased from United Rental.	
7009247	Could not find hour meter, took note of markings on oil filter.	

Est Smpl #	HP Documentation	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)	Usage Bin	HP Bin	BIN	PEMS Selection
7008597		0	#VALUE!		Prime	#VALUE!	L	#VALUE!	
7008597		0	#VALUE!		Prime	#VALUE!	L	#VALUE!	
7009091		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	X
7009091		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	
7009091		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	
7009091		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	
7009091		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	
7009091		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	X
7009091		29	#VALUE!		Prime	#VALUE!	H	#VALUE!	
7009091		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	
7009091		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	
7009091		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	
7009091		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	
7009247		#VALUE!	#VALUE!	2 x 4	Prime	#VALUE!	H	#VALUE!	
7009247		5	#VALUE!	1 x 1.5	Prime	#VALUE!	L	#VALUE!	

Est Smpl #	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5
7008597	X									
7008597	X									
7009091						X				
7009091	X			X						
7009091			X				X			
7009091									X	
7009091					X					
7009091		X						X		
7009091	X					X				
7009091			X	X						
7009091							X			
7009091					X				X	
7009091		X						X		
7009247	X									
7009247	X									

Est Smpl #	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9	
7008597					
7008597					
7009091					
7009091					
7009091					
7009091					
7009091					
7009091					
7009091					
7009091					
7009091					
7009091					
7009091					
7009247					
7009247					

Est Smpl #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7009247	1	3	7/7/2008	Compact Track Loader	Takeuchi	TL150	N
7008427	1	1	7/8/2008	Generator	Kohler	20KW	N
7009057	1	1	7/8/2008	Backhoe Loader	New Holland	B95	N
7009057	1	2	7/8/2008	Compact Skid Steer Loader	Bobcat	S250 Turbo	Y
7009057	2	3	7/8/2008	Compact Excavator	Bobcat	335G	N
7010234	1	1	7/9/2008	Loader (w/ hydraulic hammer attachment)	Case	580E	Y
7010234	2	2	7/9/2008	Mini Track Excavator	New Holland	EC35	N
7010234	2	3	7/9/2008	Skid Steer Loader	Bobcat	553	Y
7008391	1	1	7/9/2008	Hydraulic Crusher	Komatsu	PC300LC-7E0	N
7008391	1	2	7/9/2008	Track Excavator	John Deere	450D	N
7008391	1	6	7/9/2008	Rubber Tire Loader	John Deere	624J	N
7008391	1	7	7/9/2008	Track Dozer	John Deere	850J	N
7008391	2	3	7/9/2008	Track Excavator	John Deere	850D	N
7008391	2	4	7/9/2008	Track Loader	Caterpillar	963C	Y
7008391	2	5	7/9/2008	Backhoe Loader	John Deere	410G	Y
7008542	1	1	7/10/2008	Skid Steer Loader	Bobcat	S150	N
7008542	1	2	7/10/2008	Mini Track Excavator	Bobcat	329G	N

Est Smpl #	Model Year	HP	Hour Meter	Hr meter Notes	Oil Filter Hours	Oil Filter Date	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7009247	UNK	102	424.9				N	N	-9
7008427	UNK	unk	299.9				Y	Y	1
7009057	UNK	89	319.2				Y	Y	1
7009057	2002	75	1380.6				Y	N	0
7009057	UNK	40	176.2				Y	N	0
7010234	1985	73	4524.0				Y	Y	1
7010234	UNK	32	unk				Y	N	0
7010234	1998	25	2058.1				Y	N	0
7008391	UNK	246	192.0				N	N	-9
7008391	UNK	348	1866.0				Y	Y	1
7008391	UNK	167	2550.0				Y	Y	1
7008391	UNK	185	1733.0				Y	Y	1
7008391	UNK	532	1487.0				Y	Y	1
7008391	2005	160	4864.0				Y	Y	1
7008391	2006	96	677.0				Y	Y	1
7008542	UNK	46	440.0		336.0	2/7/08	Y	N	0
7008542	2007	27.7	150.8				Y	N	0

Est Smpl #	Field Observations / Comments	Misc. Comments (Office Use Only)
7009247	Belongs to United Rentals. Loaner - not testable.	
7008427	27 kw was rating on the engine tag. Note that actual usage on this generator is very low - operator said it had not been turned on since March. Very clean. Exhaust port covered by grate in metal top of cabinet - see pics.	
7009057	Pin # 031058204	
7009057		
7009057		
7010234	relatively low hours for age, mostly stays at Holly location hp based on 580L	
7010234	engine compartment inaccessible - other equipment obstruction; couldn't read hour meter - Not PEMS testable due to high roof (raise CG too much, per C Ensfield)	
7010234	no external exhaust pipe, unit generally not in great shape	
7008391	Rental unit, will be offsite starting tomorrow.	
7008391	In constant operation	
7008391	In constant operation. Kevin Uhl said that unit has been decommissioned (8/8).	
7008391	Rarely used. Kevin Uhl said that unit has been moved to Kentucky (8/8).	
7008391	In constant operation	
7008391	Periodic usage	
7008391	Rarely used. Probably a bit tough to PEMS test due to light on roof, but it looks possible.	
7008542	Engine tag on block - Model V2203, serial 05N2236	
7008542	Equipment in good shape. Rounded cab top no good for PEMS.	

Est Smpl #	HP Documentation	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)	Usage Bin	HP Bin	BIN	PEMS Selection
7009247		#VALUE!	#VALUE!	4 x 5	Other - See notes	#VALUE!	H	#VALUE!	
7008427		#VALUE!	#VALUE!	1.5 x 1.5	Prime	#VALUE!	H	#VALUE!	X
7009057		#VALUE!	#VALUE!	2.5 x 2.5	Prime	#VALUE!	L	#VALUE!	X
7009057		6	230	2.5 x 2.5	Prime	L	L	LL	
7009057		#VALUE!	#VALUE!	1 x 1	Prime	#VALUE!	L	#VALUE!	
7010234		23	197	2 x 5	Prime	L	L	LL	X
7010234		#VALUE!	#VALUE!	1.5 x 1.5	Prime	#VALUE!	L	#VALUE!	
7010234		10	206	unk	Prime	L	L	LL	
7008391		#VALUE!	#VALUE!	unk	Other - See notes	#VALUE!	H	#VALUE!	
7008391		#VALUE!	#VALUE!	5 x 8	Prime	#VALUE!	H	#VALUE!	
7008391		#VALUE!	#VALUE!	5 x 8	Prime	#VALUE!	H	#VALUE!	X
7008391		#VALUE!	#VALUE!	6 x 6	Prime	#VALUE!	H	#VALUE!	X
7008391		#VALUE!	#VALUE!	5 x 8	Prime	#VALUE!	H	#VALUE!	
7008391		3	1621	3 x 6	Prime	H	H	HH	X
7008391		2	339	4 x 3	Prime	L	L	LL	
7008542		#VALUE!	#VALUE!	1.5 x 1.5	Prime	#VALUE!	L	#VALUE!	
7008542		1	151	1 x 1	Prime	L	L	LL	

Est Smpl #	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5
7009247										
7008427	X									
7009057	X									
7009057	X									
7009057	X									
7010234	X									
7010234	X									
7010234	X									
7008391										
7008391	X	X				X	X			
7008391	X		X				X			
7008391		X	X			X				
7008391	X		X				X	X		
7008391	X	X	X	X	X	X	X	X	X	
7008391				X	X	X			X	
7008542	X									
7008542	X									

Est Smpl #	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9	
7009247					
7008427					
7009057					
7009057					
7009057					
7010234					
7010234					
7010234					
7008391					
7008391					
7008391					
7008391					
7008391					
7008391					
7008391					
7008542					
7008542					

Est Smpl #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7009998	1	1	7/10/2008	Skid Steer Loader	Case	90XT	N
7009998	2	2	7/10/2008	Tractor Loader	John Deere	5325	N
7008415	1	1	7/11/2008	Paver	Leeboy	L8515T	N
7008415	1	2	7/11/2008	Roller	Bomag	BW120 AC-3	N
7008415	1	3	7/11/2008	Skid Steer Loader	Case	465	Y
7008415	1	4	7/11/2008	Skid Steer Loader	Case	465	Y
7008415	1	5	7/11/2008	Roller	Bomag	BW120 AD-4	N
7008415	1	6	7/11/2008	Roller	Bomag	BW138AC	N
7008418	1	1	7/21/2008	Track Dozer	Caterpillar	963CB	Y
7008418	1	2	7/21/2008	Track Dozer	Caterpillar	963	Y

Est Smpl #	Model Year	HP	Hour Meter	Hr meter Notes	Oil Filter Hours	Oil Filter Date	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7009998	UNK	74	737.4				Y	N	0
7009998	UNK	unk	53.3				Y	N	0
7008415	UNK	130	1230.4				Y	N	0
7008415	UNK	33	unk				Y	N	0
7008415	2007	82	618.6				Y	N	0
7008415	2007	82	587.1				Y	N	0
7008415	UNK	34.3	1026.8				Y	N	0
7008415	UNK	44.7	362.8				Y	N	0
7008418	1995	160	10231.8				Y	Y	1
7008418	1989	150	14353.2				Y	Y	1

Est Smpl #	Field Observations / Comments	Misc. Comments (Office Use Only)
7009998	General stays at S. Leonard location. Used for trash dumping primarily. In operation during visit. Roof area approx 2'4" x 5' (per Equip Watch Spec Ref Book), probably too small for PEMS (interfere with bucket arms).	
7009998	Used for mowing several sites covering 400-500 acres every 6 weeks or so. Practically brand new. Contact said tractor is owned by "Liberty Farms", which is a subsidiary of Star Development for tax purposes.	
7008415	Probably primary owned, but contact not sure	
7008415	Probably primary owned, but contact not sure	
7008415	Probably leased long term, but contact not sure Year assumed to be 2007 based on serial number pattern	
7008415	Probably leased long term, but contact not sure Year assumed to be 2007 based on serial number pattern	
7008415	Probably primary owned, but contact not sure	
7008415	Probably primary owned, but contact not sure	
7008418		Should be classified as a crawler loader, model # 963B
7008418	No bend in pipe, just removable rain cover	Should be classified as a crawler loader, model # 963

Est Smpl #	HP Documentation	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)	Usage Bin	HP Bin	BIN	PEMS Selection
7009998		#VALUE!	#VALUE!	5 x 3	Prime	#VALUE!	L	#VALUE!	
7009998		#VALUE!	#VALUE!	3 x 2	Prime (see notes)	#VALUE!	H	#VALUE!	
7008415		#VALUE!	#VALUE!		Unk (see notes)	#VALUE!	H	#VALUE!	
7008415		#VALUE!	#VALUE!	3 x 3	Unk (see notes)	#VALUE!	L	#VALUE!	
7008415		1	619	3 x 3	Unk (see notes)	L	L	LL	
7008415		1	587		Unk (see notes)	L	L	LL	
7008415		#VALUE!	#VALUE!		Unk (see notes)	#VALUE!	L	#VALUE!	
7008415		#VALUE!	#VALUE!		Unk (see notes)	#VALUE!	L	#VALUE!	
7008418		13	787	3 x 5 (est)	Prime	H	H	HH	X
7008418		19	755	3 (est)	Prime	H	H	HH	

Est Smpl #	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5
7009998	X									
7009998	X									
7008415					X					
7008415	X			X						
7008415		X	X							
7008415					X					
7008415	X			X						
7008415		X	X							
7008418	X	X	X		X	X		X	X	
7008418				X	X		X		X	

Est Smpl #	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9	
7009998					
7009998					
7008415					
7008415					
7008415					
7008415					
7008415					
7008415					
7008418					
7008418					

Est Smpl #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7008418	1	3	7/21/2008	Excavator	Komatsu	PC300LC-6LC	Y
7008418	1	4	7/21/2008	Excavator	Komatsu	PC200LC-6LE	Y
7008418	1	4	7/21/2008	Track Dozer	Caterpillar	963	Y
7009960	1	1	7/21/2008	Articulated Loader	Komatsu	WA180	N
7009960	1	2	7/21/2008	Excavator	Komatsu	PC300LC-7L	N

Est Smpl #	Model Year	HP	Hour Meter	Hr meter Notes	Oil Filter Hours	Oil Filter Date	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7008418	1998	232	15577.8				Y	Y	1
7008418	1998	133	216.6	See notes			Y	Y	1
7008418	1985	150	15,500						
7009960	UNK	110	6098.0				Y	Y	1
7009960	UNK	242	Unk	See notes	4321.0	None	Y	Y	1

Est Smpl #	Field Observations / Comments	Misc. Comments (Office Use Only)
7008418	Limited space for PEMS, probably possible tho.	
7008418	Hour meter reading is too low, based on condition of equipment and usage if it's peers. Could not open engine compartment to get oil filter reading. Limited space for PEMS, probably possible tho.	
7008418		NOTE: team was intending on testing 21Z02958, which had been moved off site. This piece had been moved onsite, so it was the only other 963, and was incorrectly assumed to be 21Z02958. Serial # was copied from equipment master (computer), and not verified against tag on dozer, because it was difficult to read the tag. Several test attempts were made on this ineligible, uninventoried piece of equipment. When this was discovered, it was 7:00 PM, no other eligible pieces, so we went ahead and tested anyway. Reportedly a rental, used by the establishment.
7009960		
7009960	LCD hourmeter in locked cab, could not read. "10 gallons, 4321" written near lube (hydraulic) filter, no dates or other indicators of hours seen.	

Est Smpl #	HP Documentation	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)	Usage Bin	HP Bin	BIN	PEMS Selection
7008418		10	1558	4 x 6 (est)	Prime	H	H	HH	X
7008418		10	22	Unk	Prime	L	H	LH	
7008418		23			Rental		H		
7009960		#VALUE!	#VALUE!	3 x 5 (est)	Prime	#VALUE!	H	#VALUE!	X
7009960		#VALUE!	#VALUE!	4 x 6 (est)	Prime	#VALUE!	H	#VALUE!	

Est Smpl #	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5
7008418	X	X	X			X		X		
7008418				X			X			
7008418										
7009960		X		X			X			
7009960			X		X	X	X			

Est Smpl #	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9	
7008418					
7008418					
7008418					
7009960					
7009960					

Est Smpl #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7009960	1	3	7/21/2008	Track Dozer	Komatsu	D39P	N
7009960	1	4	7/21/2008	Skid Steer Loader	Mustang	2054	N
7009960	1	5	7/21/2008	Track Loader	Dresser	175C	N
7010403	1	1	7/22/2008	Forklift Truck	Genie	GTH-844	N
7009099	1	1	7/22/2008	Case Loader / Backhoe	Case	580 Super M	N
7008661	1	1	7/23/2008	Riding Trowel	Whiteman	HTH38KDTCSL	N
7008661	1	1	7/23/2008	Generator	MQ Power Corp / Whisperwatt	DCA-25SSIU	N
7008737	1	1	7/23/2008	Backhoe Loader	Case	580B	N
7008737	1	2	7/23/2008	Compact Skid Steer Loader	New Holland	LX885 Turbo	Y
7008737	1	3	7/23/2008	Compact Skid Steer Loader	New Holland	L185	N
7008737	1	4	7/23/2008	Roller / compactor	Beuthling	Unk	N
7008737	1	5	7/23/2008	Asphalt Paver	Propaver / Gilcrest	813RT	N
7008417	1	1	7/24/2008	Compact Skid Steer Loader	Bobcat	863	Y
7009457	1	1	8/4/2008	Farm Tractor with loader attachment	John Deere	4700	N
7009457	1	2	8/4/2008	Street Sweeper	John Deere	Challenger II	N
7009457	1	3	8/4/2008	Skid Steer Loader	Case	90XT	Y
7009453	1	1	8/4/2008	Track mini excavator	Bobcat	X331	Y

Est Smpl #	Model Year	HP	Hour Meter	Hr meter Notes	Oil Filter Hours	Oil Filter Date	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7009960	UNK	90	Unk	See notes			Y	N	0
7009960	2005	49	1035.1				Y	N	0
7009960	UNK	140	Unk	See notes			Y	Y	1
7010403	2008	99	410.0				Y	N	0
7009099	unk	90	433.8				Y	Y	1
7008661	unk	unk	371.0				Y	N	0
7008661	unk	30.6	5132.7				Y	Y	1
7008737	unk	unk	3408.4	See notes			Y	Y	1
7008737	1997	60	2259.1				Y	N	0
7008737	2006	72	431.1				Y	N	0
7008737	unk	unk	Unk	See notes			Y	N	0
7008737	unk	80	703.2	See notes			Y	N	0
7008417	2000	73.5	Unk				Y	N	0
7009457	2003	45	970.0				N	N	-9
7009457	unk	unk	1236.8		1161.0	1/26/06	Y	Y	1
7009457	2003	74	985.2				Y	N	0
7009453	1998	40	2242.3		2216.0	6/30/08	Y	N	0

Est Smpl #	Field Observations / Comments	Misc. Comments (Office Use Only)
7009960	Hour meter behind locked panel, could not access. Looks like enough roof area for PEMS, but has a box on cab where PEMS would need to sit.	
7009960	Looks like about enough room for PEMS, except clearance needed for forklift arms to elevate. Could be a problem during test.	While the Serial Number Guide does not give a specific list of serial numbers to validate against, it does say, "Beginning with the 2000 Series, the third and fourth digits indicate year." This would mean this unit should be classified as having a 2003 model year.
7009960	Hour meter behind locked panel, could not access. Unknown pipe diameter, estimated 3", might be a bit larger. I'm not positive this one is his (he didn't mention it, but I inventoried it anyway). I could not find a serial # anywhere on this thing.	
7010403	approx 2" by 2" available for PEMS, insufficient space	Could not verify serial number.
7009099	elliptical extension on pipe is 3 x 4, can be removed from 3" pipe	Could not verify serial number, but based on info in guide MY is probably 2006-2007.
7008661		Could not verify serial number.
7008661	Will not be used for several weeks	Could not verify serial number.
7008737	Contact reports this equipment has not been used for years. Hour meter reading is suspect (low).	Couldn't verify serial number or HP.
7008737	Roof area is 35" x 44", too small for PEMS (clearance needed for arms).	
7008737	Roof area is 35" x 45", too small for PEMS (clearance needed for arms).	Cannot precisely verify serial number, but based on info in guide, reasonably certain this is 2006 MY.
7008737	Tag painted, unable to decipher model or serial #. Hour meter illegible (condensation and corrosion inside face).	
7008737	Hour meter appears to have been replaced, so hours are probably not actual hours.	Couldn't verify serial number.
7008417	No key, so could not activate/read LCD hour meter. No info on oil filter, either.	
7009457	Open cab farm tractor w/loader attachment in front. Will be sent to the shop for routine maintenance after 1000 hours. Engine cover is broken in various places and duct tape is holding it together.	HP googled for 4700 model. Model year is between 2000-2003.
7009457	Engine cover raise for oil check and raising the engine cover tilts the cab	Might not be a suitable PEMS candidate as the hydraulic handle that raises the engine cover and cab has cracked. Might be in the shop for repairs.
7009457	Will be in the shop for routine maintenance after 1000 hours (2 weeks from date)	Spec Ref Book p. 1229
7009453	Work at this site finished on 8/8/08 and equipment will be moved to a different site	Spec Ref Book p. 555

Est Smpl #	HP Documentation	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)	Usage Bin	HP Bin	BIN	PEMS Selection
7009960		#VALUE!	#VALUE!		Prime	#VALUE!	L	#VALUE!	
7009960		3	345		Prime	L	L	LL	
7009960		#VALUE!	#VALUE!	3 (est)	Unk (see notes)	#VALUE!	H	#VALUE!	X
7010403		1	410	4.0	Prime	L	L	LL	
7009099		#VALUE!	#VALUE!	3.0	Prime	#VALUE!	L	#VALUE!	X
7008661		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	
7008661		#VALUE!	#VALUE!		Prime	#VALUE!	L	#VALUE!	X
7008737		#VALUE!	#VALUE!	2 x 3	Prime	#VALUE!	H	#VALUE!	X
7008737		11	205		Prime	L	L	LL	
7008737		2	216		Prime	L	L	LL	
7008737		#VALUE!	#VALUE!		Prime	#VALUE!	H	#VALUE!	
7008737		#VALUE!	#VALUE!	1.5 x 2	Prime	#VALUE!	L	#VALUE!	
7008417		8	#VALUE!		Prime	#VALUE!	L	#VALUE!	
7009457		5	194	2.0	Prime	L	L	LL	
7009457		#VALUE!	#VALUE!	3.0	Prime	#VALUE!	H	#VALUE!	X
7009457		5	197	3 X 4	Prime	L	L	LL	
7009453		10	224	2 X 1.5	Prime	L	L	LL	

Est Smpl #	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5
7009960	X	X								
7009960				X	X					
7009960	X		X			X				
7010403	X									
7009099	X									
7008661	X									
7008661	X									
7008737	X		X							
7008737		X			X					
7008737			X	X						
7008737	X	X								
7008737				X	X					
7008417	X									
7009457										
7009457	X									
7009457	X									
7009453	X									

Est Smpl #	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9	
7009960					
7009960					
7009960					
7010403					
7009099					
7008661					
7008661					
7008737					
7008737					
7008737					
7008737					
7008737					
7008417					
7009457					
7009457					
7009457					
7009453					

Est Smpl #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7009453	1	2	8/4/2008	Diesel Forklift	Caterpillar	TH460B	N
7009422	1	1	8/4/2008	Skid Steer Loader	Caterpillar	246B	Y
7009422	1	2	8/4/2008	Tire Loader	Caterpillar	938G	Y
7009422	1	3	8/4/2008	Excavator	Caterpillar	330BL	Y
7009422	1	4	8/4/2008	Excavator	Caterpillar	235	N
7009422	1	5	8/4/2008	Excavator	Caterpillar	225B	Y
7009422	1	6	8/4/2008	Loader	Caterpillar	950F	Y
7009422	1	7	8/4/2008	Motor Grader	Caterpillar	160H	Y
7010062	1	1	8/5/2008	Backhoe Loader	John Deere	310J	N
7010062	1	2	8/5/2008	Backhoe Loader	John Deere	310G	N
7010062	1	3	8/5/2008	Backhoe Loader	John Deere	310G	Y
7010062	1	4	8/5/2008	Diesel Compressor	Ingersoll-Rand	185	N
7010062	1	5	8/5/2008	Backhoe Loader	John Deere	310G	N
7010062	2	6	8/5/2008	Trencher	Vermeer	T655 Commander II	Y
7010062	2	7	8/5/2008	Backhoe Loader	John Deere	310G	N
7010062	2	8	8/5/2008	Backhoe Loader	John Deere	310G	N
7010062	2	9	8/5/2008	Track Loader	Caterpillar	D4C III	Y
7010062	2	10	8/5/2008	Track Excavator	Hitachi	ZX160LC	Y

Est Smpl #	Model Year	HP	Hour Meter	Hr meter Notes	Oil Filter Hours	Oil Filter Date	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7009453	2004	95	1839.9		330.0	4/22/05	Y	Y	1
7009422	2006	78	404.0				Y	N	0
7009422	1998	145	7645.0		7450.0	5/1/08	Y	Y	1
7009422	1997	222	9767.8		8455.0	1/20/06	Y	Y	1
7009422	unk	unk	4758.7				Y	Y	1
7009422	1989	unk	15960.7				Y	Y	1
7009422	1991	170	12635.2		12505.0	6/1/08	Y	Y	1
7009422	1997	180	8639.2				Y	Y	1
7010062	unk	84	756.5				Y	Y	1
7010062	unk	74	1324.7				Y	Y	1
7010062	2006	74	1849.4				Y	Y	1
7010062	2004	unk	308.2				N	Y	1
7010062	unk	74	829.5				Y	Y	1
7010062	2006	250	unk		866.0	12/1/07	Y	Y	1
7010062	unk	74	1324.6				Y	Y	1
7010062	unk	74	925.4				Y	Y	1
7010062	2001	80	3571.1				Y	Y	1
7010062	2006	110	1611.0				N	N	0

Est Smpl #	Field Observations / Comments	Misc. Comments (Office Use Only)
7009453	Work at this site finished on 8/8/08 and equipment will be moved to a different site at Auburn, KS.	Spec Ref Book p. 1112. Not 100% sure about model year - serial number guide looks like it may have a typo for this number range.
7009422		Spec Ref Book p. 1241
7009422		Spec Ref Book p. 1421
7009422		Spec Ref Book p. 617
7009422	Rain cap on exhaust pipe	Ser # may actually be 32K01967, but can't verify that from picture of tag. If so, MY is 1978. Either way this piece is old enough that it doesn't show up in Spec Ref Book or online Spec Check.
7009422	In place of the excavator bucket, it has a roller attachment. Rain cap on exhasut pipe.	HP unknown; not showing up in Spec Ref Book, or online
7009422		HP is from 950F Series II
7009422		Spec Ref Book p. 497
7010062	Job site extends from Topeka Blvd to Washburn St. @ 2 miles	Ample space on cab roof for PEMS; 310J not present in serial number guide
7010062		Ample space on cab roof for PEMS; serial number is too recent to show up in guide - it's probably either an 06 or 07 MY; Spec Ref Book p. 1329
7010062		Ample space on cab roof for PEMS; Spec Ref Book p. 1329
7010062		Ample space on cab roof for PEMS; serial number is too recent to show up in guide - it's probably either an 06 or 07 MY; Spec Ref Book p. 1329
7010062	Exhasut pipe has rain cap. Cab roof has metal hooks and a metal ridge in between. Will need som epadding/base for PEMS, Doubtful candidate for PEMS.	
7010062		Ample space on cab roof for PEMS; serial number is too recent to show up in guide - it's probably either an 06 or 07 MY; Spec Ref Book p. 1329
7010062		Ample space on cab roof for PEMS; serial number is too recent to show up in guide - it's probably either an 06 or 07 MY; Spec Ref Book p. 1329
7010062	Space on cab roof for PEMS. The exhaust pipe opening is bent out of shape. The equipment has side boom (cable and pulley attachment) for lowering pipes.	Spec Ref Book p. 290
7010062	Escape hatch on cab roof.	Spec Ref Book p. 735

Est Smpl #	HP Documentation	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)	Usage Bin	HP Bin	BIN	PEMS Selection
7009453		4	460	4.0	Prime	L	L	LL	X
7009422		2	202	2 x 3	Prime	L	L	LL	
7009422		10	765	5 x 10 (approx)	Prime	H	H	HH	
7009422		11	888	5 x 8	Prime	H	H	HH	X
7009422		#VALUE!	#VALUE!	4.0	Prime	#VALUE!	H	#VALUE!	
7009422		19	840	4.0	Prime	H	H	HH	
7009422		17	743	5 x 8 (approx)	Prime	H	H	HH	
7009422		11	785	4 x 5	Prime	H	H	HH	X
7010062		#VALUE!	#VALUE!	4 x 3	Prime	#VALUE!	L	#VALUE!	X
7010062		#VALUE!	#VALUE!	4 x 3	Prime	#VALUE!	L	#VALUE!	
7010062		2	925	4 x 3	Prime	H	L	HL	X
7010062		4	77	2.0	Prime	L	H	LH	
7010062		#VALUE!	#VALUE!	4 x 3	Prime	#VALUE!	L	#VALUE!	
7010062		2	#VALUE!	5.0	Prime	#VALUE!	H	#VALUE!	X
7010062		#VALUE!	#VALUE!	4 x 3	Prime	#VALUE!	L	#VALUE!	
7010062		#VALUE!	#VALUE!	4 x 3	Prime	#VALUE!	L	#VALUE!	X
7010062		7	510	5 x 6 (approx)	Prime	L	L	LL	
7010062		2	808	2 x 4	Prime	H	H	HH	

Est Smpl #	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5
7009453	X									
7009422					X					
7009422		X				X	X	X	X	
7009422	X		X	X						
7009422					X					
7009422		X				X				
7009422							X	X	X	
7009422	X		X	X						
7010062		X								
7010062	X				X					
7010062		X	X			X				
7010062	X				X					
7010062			X			X				
7010062		X				X				
7010062			X				X	X		
7010062				X	X	X				
7010062	X						X	X		
7010062	X	X	X	X	X					

Est Smpl #	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9	
7009453					
7009422					
7009422					
7009422					
7009422					
7009422					
7009422					
7009422					
7010062					
7010062					
7010062					
7010062					
7010062					
7010062					
7010062					
7010062					
7010062					
7010062					
7010062					
7010062					

Est Smpl #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7010349	1	1	8/5/2008	Track Loader	Caterpillar	953	Y
7010349	1	2	8/5/2008	Tool Carrier	Caterpillar	IT24F	Y
7010349	1	3	8/5/2008	Excavator	Caterpillar	330DL	Y
7010349	1	4	8/5/2008	Excavator	Caterpillar	320B	Y
7009429	1	1	8/5/2008	Backhoe excavator	Caterpillar	420E	N
7009429	1	2	8/5/2008	Directional boring drill	Ditch Witch	JT2020	N
7009679	1	1	8/6/2008	Skid Steer	New Holland	LX665 Turbo	Y
7010501	1	1	8/6/2008	Pump	Godwin	HS200GP	N
7010501	1	2	8/6/2008	Diesel Forklift	Manitou	686DT	N
Page 93 of 1 7009575	1	1	8/7/2008	Diesel Forklift	LULL	Highlander II	N

Inventory

Est Smpl #	Model Year	HP	Hour Meter	Hr meter Notes	Oil Filter Hours	Oil Filter Date	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7010349	1988	121	4019.0				Y	Y	1
7010349	1998	105	7161.1				Y	Y	1
7010349	2006	268	1165.4				Y	Y	1
7010349	1997	128	6352.3				Y	Y	1
7009429	2008	89	40.5				Y	Y	1
7009429	2006	83	756.0				N	Y	1
7009679	1998	56	2667.0		2215.0	10/1/07	Y	N	0
7010501	2004	165	1573.0				N	Y	1
7010501	unk	unk	388.5		251.0	8/1/07	Y	Y	1
Page 94 of 1 7009575	1985	unk	2523.3				Y	N	0

Phase 3 On-Site inventory

Est Smpl #	Field Observations / Comments	Misc. Comments (Office Use Only)
		Ample space on cab roof for PEMS. This piece will remain at tis site. Work is done at this site only when the establishment is free from other paid commercial work. Tony (contact) said that in case we choose this equipment, he will coordinate with us so that this equipment will be used on the day of testing (PEMS); Spec Ref Book p. 458
7010349	Exhaust pipe has rain cap.	
7010349	Exhaust pipe opening is slightly broken (holes and cracks) and is out of shape. Antenna at cab roof corner.	
7010349	Cab roof has escape hatch, insufficient space (??). Tony said that we could set up the PEMS unit on top of the engine housing cover. Space available for PEMS on top of the negine housing cover, securing the unit might prove difficult (unsure of this).	
7010349	Cab roof has escape hatch, insufficient space (??). Tony said that we could set up the PEMS unit on top of the engine housing cover. Space available for PEMS on top of the negine housing cover, securing the unit might prove difficult (unsure of this).	
7009429	4x4. 2 antennas on cab roof corners. Space available for PEMS.	
7009429		Will be working week of August 11th in Auburn, KS and will possibly be working the following week at the same location in Auburn, KS.
7009679	The work at this site will be completed on 8/8/08 and the equipment will be moved to a different site. If choosen, the install team will have to contact Dan and get the address where the equipment will be present	
7010501	Exhaust pipe has rain cap. HP and model year are guesses based on info from establishment.	Located and will be used at the establishment yard. Usually used for a few hours every week. In case this is choosen for PEMS, contact Brian in advance so he can make sure that this pump is run on the day of testing. Need a plywood base to place the PEMS so it wont scratch the paint. Brian said he would provide the plywood base if called in advance with the dimensions; unable to confirm HP or MY through other sources.
7010501	Exhaust pipe has muffler attachment. Brian said if the PEMS unit can muffle the sound then it would be ok to remove the muffler and connect the PEMS directly to the exhaust, if not then we will have to connect the PEMS unit to the exhaust coming out of the muffler attachment.	Equipment is located and will be used in the yard only. If we can contact Brian in advance he said he could suggest a day when the equipment will be used (for PEMS). The roof cab has a plastic base and Brian said he would provide us with a plywood base to place the PEMS unit on, if we call him in advance and let him know the dimensions for the plywood base.
Page 95 of 1 7009575	Equipment will be used at work sites starting the end of week of Aug 11th. Will have to contact Kevin Callahan to obtain equipment location/address. MY guessed by establishment.	Unable to confirm MY though other sources

Est Smpl #	HP Documentation	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)	Usage Bin	HP Bin	BIN	PEMS Selection
7010349		20	201	2.0	Prime	L	H	LH	X
7010349		10	716	3 x 4 (approx)	Prime	H	H	HH	
7010349		2	583	5 x 8	Prime	L	H	LH	X
7010349		11	577	3 x 4	Prime	L	H	LH	
7009429		1	41	2 x 3	Prime	L	L	LL	X
7009429		2	378	3 x 4	Prime	L	L	LL	X
7009679		10	267	2.0	Prime	L	L	LL	
7010501	HP guessed by Brian Simmons.	4	393	4.0	Prime	L	H	LH	X
7010501		#VALUE!	#VALUE!	2.0	Prime	#VALUE!	H	#VALUE!	X
Page 96 of 1 7009575		23	110	2.0	Prime	L	H	LH	

ntory

Est Smpl #	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5
7010349						X				
7010349	X	X	X	X	X		X	X	X	
7010349	X					X			X	
7010349		X	X	X	X		X	X		
7009429	X									
7009429	X									
7009679	X									
7010501	X									
7010501	X									
Page 97 of 1 7009575	X									

Est Smpl #	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9	
7010349					
7010349					
7010349					
7010349					
7009429					
7009429					
7009679					
7010501					
7010501					
Page 98 of 1 7009575					

Est Smpl #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7009575	1	2	8/7/2008	Skid Steer Loader	Case	60XT	N
7009440	1	1	8/8/2008	Skid Steer Loader	Bobcat	743	N
7009440	1	2	8/8/2008	Skid Steer Loader	Bobcat	853H	Y
7009440	1	3	8/8/2008	Mini Track Excavator	Bobcat	331D	Y
7009440	2	4	8/8/2008	Forklift Truck	LULL	Highlander II	N
7009758	1	1	8/9/2008	Tractor	Kubota	L2550	N
7009758	1	2	8/9/2008	Skid Steer Loader	Case	1845C	Y
7009272	1	1	8/11/2008	Loader	John Deere	DCL5446	N
7009272	1	2	8/11/2008	Excavator	Komatsu	PC400LC	Y
7009272	2	3	8/11/2008	Track Dozer	Case	1150K	N
Page 99 of 110 7009272	2	4	App W 8/11/2008	Equipment Inventory Results, all phases_updated.xls Track Loader Caterpillar	Phase 3 On-Site inventory 953C	Y	

Est Smpl #	Model Year	HP	Hour Meter	Hr meter Notes	Oil Filter Hours	Oil Filter Date	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7009575	2001	69	369.8				Y	N	0
7009440	unk	unk	1625.3		1519.0	2/15/06	Y	N	0
7009440	1994	unk	unk		2563.0	8/27/04	Y	N	0
7009440	2001	40	497.7		438.0	4/27/07	Y	N	0
7009440	unk	unk	808.3	Billy thinks that the hour meter reset after 9999.9 (actual hrs may be 10808.3)			Y	N	0
7009758	unk	unk	694.4				Y	N	0
7009758	1987	57	256.0	256 hrs on 1/11/90, this is indicated on a tag attached to the frame of the loader. No oil filter hours.			Y	N	0
7009272	unk	unk	7636.0				Y	Y	1
7009272	1993	330	3025.0				Y	Y	1
7009272	2007	124	734.0				Y	Y	1
Page 100 of 110 7009272	1997	121	5416.0	App W Equipment Inventory Results, all phases_updated.xls			Y	Y	1

Est Smpl #	Field Observations / Comments	Misc. Comments (Office Use Only)
7009575	Equipment will be used at work sites starting the end of week of Aug 11th. Will have to contact Kevin Callahan to obtain equipment location/address. MY guessed by establishment.	Unable to confirm MY though other sources
7009440	Equipment will be used at different work sites. Coordinate with Billy for installation.	Can't validate serial number or HP.
7009440	Equipment will be used at different work sites. Coordinate with Billy for installation.	Can't validate HP.
7009440	Equipment will be used at different work sites. Coordinate with Billy for installation.	Spec Ref Book p. 555
7009440	Work at this is completed, waiting for transport to a different site near KS and OK Border (approx 3 hours from Topeka).	No serial/equipment tags, might be painted over. Can't validate serial number or HP.
7009758	Open cab tractor.	Equipment will not be used in the next 3-4 weeks as work is very slow. Can't validate serial number or HP.
7009758	256.0 hrs on 1/11/90, this is indicated on a tag/label attached to the equipment frame.	Equipment will not be used in the next 3-4 weeks as work is very slow. Spec Ref Book p. 1235.
7009272	Couldn't find equipment tags. Serial number is from a service/maintenance label in the engine compartment. If additional info is reqd, can call Shane with establishment ID and he will provide info over the phone.	Very cooperative and willing to help with PAMS/PEMS. Cab roof has a magnetic strobe light that can be dismounted during PEMS. Equipment will be moved to a different site (2 miles down the rd on 115th St. starting 8/13/08). If choosen will have to inform Shane, so that the equipment can be parked on the street for easy access. They usually leave the equipment in people's frontyards after work.
7009272	Escape hatch on cab roof. Justin (SRI) indicated that they can install the PEMS on top of the counter weight or near the engine housing compartment. A wooden base will be required and also some foam/insulation material to keep the heat from the engine compartment.	Very cooperative and willing to help with PAMS/PEMS. Equipment will be moved to a different site (2 miles down the rd on 115th St. starting 8/13/08). If choosen will have to inform Shane, so that the equipment can be parked on the street for easy access. They usually leave the equipment in people's frontyards after work.
7009272		If choosen will have to inform Shane, so that the equipment can be parked on the street for easy access. They usually leave the equipment in people's frontyards after work. HP based on 1150H.
Page 101 of 110 7009272	App W Equipment Inventory Results, all parks updated for easy access. They usually leave the	If choosen will have to inform Shane, so that the equipment can be parked on the street for easy access. They usually leave the equipment in people's frontyards after work.

Est Smpl #	HP Documentation	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)	Usage Bin	HP Bin	BIN	PEMS Selection
7009575		7	53	3 x 4	Prime	L	L	LL	
7009440		#VALUE!	#VALUE!	3 x 1.5	Prime	#VALUE!	H	#VALUE!	
7009440		14	#VALUE!	3 x 1.5	Prime	#VALUE!	H	#VALUE!	
7009440		7	71	1.5	Prime	L	L	LL	
7009440		#VALUE!	#VALUE!	2.25	Prime	#VALUE!	H	#VALUE!	
7009758		#VALUE!	#VALUE!	2 x 3	Prime	#VALUE!	H	#VALUE!	
7009758		21	12	2.0	Prime	L	L	LL	
7009272		#VALUE!	#VALUE!	3 x 4	Prime	#VALUE!	H	#VALUE!	X
7009272		15	202	5 x 8	Prime	L	H	LH	X
7009272		1	734	4.0	Prime	H	H	HH	X
Page 102 of 110 7009272		App W 11	Equipment Inventory Results, all phases 492	3 x 4	Prime	L	H	Phase 3 On-Site inventory LH	

Est Smpl #	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5
7009575	X									
7009440	X		X							
7009440		X	X							
7009440	X	X								
7009440	X									
7009758	X									
7009758	X									
7009272	X									
7009272	X									
7009272		X	X	X	X	X			X	
Page 103 of 110 7009272			App W	Equipment Inventory Results, all phases_u			X		Phase 3 On-Site inventory	

Est Smpl #	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9	
7009575					
7009440					
7009440					
7009440					
7009440					
7009758					
7009758					
7009272					
7009272					
7009272					
Page 104 of 110 7009272			App W	Equipment Inventory Results, all phases_updated.xls	

Est Smpl #	Site #	Equip ID # (Field)	Inventory Date	Equipment Type	Manufacturer/Make	Model	Serial # Verified?
7009272	2	5	8/11/2008	Excavator	Komatsu	PC300LC	Y
7009272	2	6	8/11/2008	Excavator	Komatsu	PC400LC	Y
7009272	2	7	8/11/2008	Track Dozer	Caterpillar	963B	Y
7010056	1	1	8/14/2008	Skid Steer	Case	465	N
7010056	1	2	8/14/2008	Backhoe Loader	Case	580C	Y
7009022	1	1	8/14/2008	Forklift Truck	LULL	844C-42 (Highlander)	N

Est Smpl #	Model Year	HP	Hour Meter	Hr meter Notes	Oil Filter Hours	Oil Filter Date	PAMS Elig. (Y / N)	PEMS Elig. (Y / N)	Eligibility
7009272	2002	242	7679.0				Y	Y	1
7009272	2000	330	10190.0				Y	Y	1
7009272	1998	160	5276.0				Y	Y	1
7010056	2007	88	575.2				Y	N	0
7010056	1980	87	1106.9				Y	Y	1
7009022	unk	102	5608.4				Y	N	0

Est Smpl #	Field Observations / Comments	Misc. Comments (Office Use Only)
7009272	Escape hatch on cab roof. Justin (SRI) indicated that they can install the PEMS on top of the counter weight or near the engine housing compartment. A wooden base will be required and also some foam/insulation material to keep the heat from the engine compartment.	If choosen will have to inform Shane, so that the equipment can be parked on the street for easy access. They usually leave the equipment in people's frontyards after work.
7009272	Escape hatch on cab roof. Justin (SRI) indicated that they can install the PEMS on top of the counter weight or near the engine housing compartment. A wooden base will be required and also some foam/insulation material to keep the heat from the engine compartment.	If choosen will have to inform Shane, so that the equipment can be parked on the street for easy access. They usually leave the equipment in people's frontyards after work.
7009272	Might be stand off exhaust. Appears to be bolted to the frame from outside.	If choosen will have to inform Shane, so that the equipment can be parked on the street for easy access. They usually leave the equipment in people's frontyards after work.
7010056	Very limited use, maintenance at the facility only. Estimated use less than 40 hrs/month.	
7010056	Very limited use, maintenance at the facility only. Estimated use less than 40 hrs/month.	HP based on 580 Super K
7009022	Exhaust pipe is badly bent out of shape.	

Est Smpl #	HP Documentation	Age	Usage (hrs/yr)	Pipe OD (inches)	Ownership (if Known)	Usage Bin	HP Bin	BIN	PEMS Selection
7009272		6	1280	4.5 x 5.5	Prime	H	H	HH	
7009272		8	1274	4 x 5	Prime	H	H	HH	X
7009272		10	528	3 x 4	Prime	L	H	LH	
7010056		1	575	3.5"	Prime	L	L	LL	
7010056		28	40	2"	Prime	L	L	LL	X
7009022		#VALUE!	#VALUE!	3"	Prime	#VALUE!	H	#VALUE!	

Est Smpl #	PAMS Selection	PAMS Backup 1	PAMS Backup 2	PAMS Backup 3	PAMS Backup 4	PEMS Backup 1	PEMS Backup 2	PEMS Backup 3	PEMS Backup 4	PEMS Backup 5
7009272	X			X				X	X	
7009272		X	X		X	X	X			
7009272	X							X		
7010056	X									
7010056	X									
7009022	X									

Est Smpl #	PEMS Backup 6	PEMS Backup 7	PEMS Backup 8	PEMS Backup 9	
7009272					
7009272					
7009272					
7010056					
7010056					
7009022					