

Pine AFG1 Gyratory Compactor Service/Calibration Record

Pine AFG1A (115 V) ☐ Pine AFG1C (220 V)

1425 Serial Number

UNIVERSITY ARK SGC Owner (Company Name)

FAVEHEVILLE SGC Location (City and State)

Status of Compactor Prior to Calibration Change

54.3

9-25-07

9-25-07
Previous SGC Verification Date

PCS

Machine Hours

Previous SGC Calibration Date

Previous Service Provider (if known)

Speed of Gyration $(30 \pm 0.5 \text{ GPM})$

Ultimate

Stop Watch

Serial Number

Gyrations	"As Found"	"As Left"		
15	30.01 S	3001 s		

(15 gyrations in 30 ± 0.5 seconds is 30 ± 0.5 GPM)

Consolidation Pressure (Force Measurement)

Pine AFGCLRO5C

1280

Load Ring Model

Serial Number

01/10/2012

Calibration Date

Force (N)	Dial (±1 % Range)	Dial "As Found"	Dial. "As Left"		
5000	111.8 – 114.1	112	112,2		
10500	233.6 – 238.3	236.4	2364		

Specimen Height (Position Measurement)

Pine AFG123C

1280-1A, 1B, 2A, 2B

Gage Block Model

Serial Number(s)

01/12/2012

Block Calibration Date

Height mm (inches)	"As Found"	"As Left"	
152.4 mm (6")	157.42 mm	152.40 mm	

Internal Angle of Gyration (AASHTO TP71)

Pine AFLS1 (RAM)

005

Internal Angle Device

Serial Number

10/06/2011

Calibration Date

Mold Identification

Angle Parameter	"As Found"	"As Left"
Top Angle	1.17 °	1.1% °
Bottom Angle	1.15 °	1.16 °
Internal Angle	1.16 °	1.16 °

Angle Sensor Verification

Pine AFG1A07

Gage Model

Angle Parameter	"As Found"	"As Left"		
Dial Reading 1	150 "	152 "		
Dial Reading 2	709 "	709 "		
Difference	559 "	557 "		
Range	553-563 "	551-561"		
Offset	13.350 "	13.350 "		

Machine Display (External) Angle of Gyration

Angle Parameter	"As Foun	ď"	"As Left"	
Unloaded	1.22	0	1.22	0
Loaded	1.19	0	1.19	0

Pine AFG1 Gyratory Compactor Service/Calibration Record

X	Pine	AFG1A	(115	V)
	Pine	AFG1C	(220)	V)

1429 Serial Number

Temperature

Machine Settings

Parameter	"As Found"		"As Left"				
Mold Diameter	150 mm		150	mm			
Compaction Mode	75	≰ gyr □ mm	75	≱ gyr □ mm			
Angle of Gyration	1.16	⊭ int □ ext	1.6	≠ int □ ext			
Squaring Delay	1	s	Ø	s			

Service Lubrication

/	Ram Foot (daily, anti-seize lube)
	Actuator Bearings (annual, MoS ₂ grease)
1	Ball Screw Bearings (annual., MoS ₂ grease)
/	Ball Screw (annual, MoS ₂ grease)
	Mold Clamp Pivots (annual, anti-seize)
	Mold Top Clamps (annual, anti-seize)

Service Inspection						
	Overall Operation & Appearance					
	Electrical Ground, VAC input					
/	E-Stop Interlock					
	Door Switch Interlock					
	Battery Change (AA annual, Lithium 5 yr)					
	Date / Time Correct					
	Mold Top					
/	Mold Top Clamps					
~	Mold Top Proximity Switch					
	Mold Clamps					
. 003 "	Swivel Frame Bearing Clearance ≤ 0.012"					
	Ram Foot and Retaining Ring Tight					
	Ram Key / Plate					
1	Ram Drive Belt Tension					
1	Actuator Crankshaft Clamp Screws					
/	Floppy Disk Functional					
	Printer Port Functional					
1	Serial Port Functional					
/	Calibration Data Backup Saved					

Notes

REPLACED RAM DRIVER BOARD

UPGRAPED SOFTWARE

Gyratory Compactor Certificate of Calibration and Traceability to the United States National Institute of Standards and Technology

Gyratory Compactor Information

PINE	A	FG1_	1429	UNIVED SGC Owne	ks 1ty	OF	ARK	FAYE	Meville	6 <u>70</u>
Manufac	cturer ar	nd Model	Serial Number	SGC Owne	er (Com	pany Name	e) and Lo	ocation '	14	Temperature
Rate of	f Gyr	ation								
	Calibr	ration service	for the rate of g	yration was no	t perfe	ormed.				
风	The ra	ate of gyration	was standardiz	zed to 30.0 ±0.5	gyrat	ions per i	minute	using a c	ligital sto	opwatch.
Consol	idatio	on Pressure								
	Calibr	ration service	for the consolid	lation pressure v	was no	ot perform	ned.			
		_	ressure measure owing apparatus	-	as cal	ibrated to	o withi	n ± 1.0%	by calib	orating the applied
	X	Pine AFGCL	R05C load ring	g (5000 lbf)	SN	1280	0	Calibrati	on Date	01/10/2012
									NIST #	822/255038-95
		Interface 121	.0BDE-5K load	d cell (5000 lbf)	SN	15180	9A	Calibrati	on Date	10/06/2011
		with N	ewport INFCS-	000 A/E meter	SN	40150	69		NIST #	822/255038-95
Specim	en H	eight Measu	rement							
	Calibr	ation service	or the specime	n height measu	remen	t system	was no	ot perforn	ied.	
×		pecimen heigl ving apparatus		t system was o	calibra	ted to w	rithin ±	± 0.05 m	m (± 0.0	002 in) using the
	X	Pine AFG123	Gage Block S	et	SN	1280-1	A ,	Calibrati	on Date_	01/12/2012
	`					1B, 2A	, 2B		NIST #_	08A014.9501
		Pine AFGBA	.04 Calibration	Tube	SN	04094	42	Calibration	on Date_	10/06/2011
									NIST #_	08A014.9501
Angle o	of Gyi	ration								
	Calibr	ation service f	or the angle of	gyration was n	ot per	formed.				
			of gyration wa urer instruction		nder s	imulated	loadir	ng condit	ions to	1.25 ± 0.02° per
	Test M	lethod for Mea	asurement of S							1 D7115 Standard of Gyration Using
	Pin	e AFLS1 Rapi	d Angle Measu	rement Device	SN	005		Calibratio	on Date_	10/06/2011
									NIST #_	08A014.9501
Calibra	ation S	Service Prov	ider							
I hereb	y cert	ify the stand	ardization serv	rices have been horized by Pine					nat I an	n an authorized
Mar Technicia	R &	Jouring	4-3-1 Date	Z Pine	Гest Е		t, LLC	., Grove (City, PA	, (724) 458-6391
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