

Pine AFGC125X Gyratory Compactor Service/Calibration Record

☐ Pine AFGC125XA (115 V 60 Hz) Pine AFGC125X (220 V 60Hz)

☐ Pine AFGC125XE (220 V 50 Hz)

015 Serial Number

UNIVERSITY OF ARK. SGC Owner (Company Name)

FAYETTEVILLE

Location (City and State)

Status of Compactor Prior to Calibration Change

107.1

1-18-11

2-20-12

PW

Machine Hours

Previous SGC Calibration Date

Previous SGC Verification 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	30.05 S	30.05 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	Dial	Dial	Dial		
(N)	(±1 % Range)	"As Found"	"As Left"		
3500 77.8 – 79.4		73.4	79.4		
14500 323.8 – 330.4		324.2	3245		

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")	152.41	152-40		

Internal Angle of Gyration (AASHTO TP71)

Pine AFLS1 (RAM)

005

Internal Angle Device

Serial Number

10/06/2011

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Calibration Date

Mold Identification

Angle Parameter	" As Foun	"As Left"		
Top Angle	1.// °		1.10	0
Bottom Angle	1.10	0	1.16	0
Internal Angle	1.105	0	1.10	0

Unloaded External Mold Angle

Pine ACGCA001

Angle Gage Model

Angle Parameter	"As Found"	"As Left"		
Adjustable Link Gap (0.002" to 0.004")	·004 "	. as		
Intermediate Link Gap (0.002" to 0.004")	.004 "	." Sou.		
Fixed Link Gap (0.0015" to 0.002")	.aa4 "	.our "		
Fixed Ring Gap (0.002" to 0.004")	. OOK/ "	.cuzs "		
Zero Plane R-L (≤ 0.001") F-R	.cuus "	Ø "		
Dial Reading 1	3105 "	3100 "		
Dial Reading 2	2005 "	/990		
Dial Difference	.1100 "	.1/30 "		
Unloaded Angle	1.25 °	1.28 °		

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 ✓ Pine AFGC125X (220 V 60 Hz)
- ☐ Pine AFGC125XE (220 V 50 Hz)

Serial Number

7/ °I

4-J-/2 Date

Machine Settings

Parameter	"As Fo	und"	"As Left"					
Spec. Diameter	150	mm	150	mm				
Pressure	600	kPa	600	kPa				
Compaction Mode	150	□ gyr ⊠ mm	75	z gyr □mm				
Angle of Gyration	1.105°	≰ int □ ext	1.16°	int □ ext				
Squaring Delay	4	s	Ø	s				

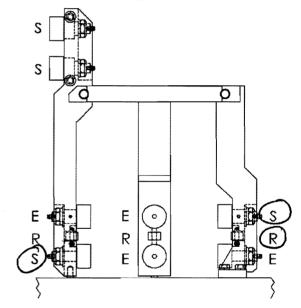
Service Inspection

Service Inspection						
	Overall Operation & Appearance					
	Electrical Ground, VAC input					
	E-Stop Interlock					
	Door Switch Interlock					
	Lift Link Tight					
	Tilt Pump Operation / Fluid Level					
	Tilt Limit Switches					
/	Ram Drive Belt Tension					
/	Ram Key					
	Ball Nut Tight					
	Fan Filter Replaced					
	Fixed Ring					
	Fixed Ring Rollers					
	Ram Foot					
2/	Carriage Rollers					
1	Guide Rollers					
	Carriage Base Cog					
	Bearing Cap Condition					
10015	Base Bearing Clearance (< 0.008 ")					
/	Chain Tension					
	Extruder Cylinder/Pump					
	Batteries Replaced					
	Date / Time Correct					
	Printer Port					
	Serial Port					

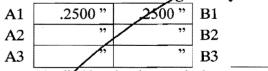
Service Lubrication

	Ram Foot (daily, MoS ₂ powder)
1	Bearing Cap (daily, MoS ₂ powder)
	Fixed Ring (annual, SAE 30 oil)
	Ball Screw Bearings (annual, MoS ₂ grease)
	Ball Screw (annual, MoS ₂ grease)
	Rollers (annual, MoS ₂ grease)
	Extruder Handle (annual, MoS ₂ grease)
	Base Bearing (annual, MoS ₂ grease)
	Drive Chain (annual, SAE 30 oil)

Rollers Replaced (circled)



Loaded External Angle of Gyration*



*Applicable only when required

Notes Replaced ELFTBX LAMP

2 Stranght Reflexs

1 Vont Reflex

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

PINE	- A	FGC125X	OB	UNIVE	P(5/0	ty of	ARK	FAYETTEN	16-	70
Manufa	cturer an	nd Model	Serial Number	SGC Owne	r (Com	pany Name)	and Location		<u>ر</u> -	Temperature
Rate o	f Gyra	ation								
	Calibr	ration service fo	r the rate of gyrati	on was not	perfo	ormed.				
×	\blacksquare The rate of gyration was standardized to 30.0 \pm 0.5 gyrations per minute using a digital stopwatch.									
Conso	lidatio	n Pressure								
	Calibr	ation service fo	r the consolidation	n pressure v	vas no	ot perform	ed.	Y		
Ø		onsolidation pre using the follow	ssure measuremen ving apparatus:	it system w	as cal	ibrated to	within ± 1.	.0% by calib	rating	the applied
	¤	Pine AFGCLR	05C load ring (500	00 lbf)	SN	1280	Calib	oration Date	01/10	0/2012
								NIST #	822/2	255038-95
		Interface 1210	BDE-5K load cell	(5000 lbf)	SN	_151809	A Calib	ration Date	10/0	6/2011
		with Nev	wport INFCS-000	A/E meter	SN	401506	9	NIST #	822/2	255038-95
Specin	nen H	eight Measure	ement							
· 🗆		_	r the specimen hei	ght measur	emen	t system w	as not perf	formed.		
Ħ	-	pecimen height ving apparatus:	measurement sys	stem was c	alibra	ited to wit	thin ± 0.05	5 mm (± 0.0	002 in) using the
	Ø	Pine AFG123	Gage Block Set		SN	1280-1 <i>A</i>	A , Calib	ration Date	01/12	2/2012
	·					1B, 2A,	2B	NIST#	08A0	14.9501
		Pine AFGBA0	4 Calibration Tub	e	SN	040942	2 Calib	ration Date	10/0	6/2011
								NIST #	08A0	14.9501
Angle	of Gyı	ration								
	Calibra	ation service for	the angle of gyra	tion was no	ot per	formed.				
		tternal angle of nent manufactur	f gyration was ca er instructions.	librated un	der s	imulated l	loading co	nditions to	1.25 =	± 0.02° per
×	The internal angle of gyration was calibrated to $1.16 \pm 0.02^{\circ}$ per AASHTO TP71 / ASTM D7115 Standard Test Method for Measurement of Superpave Gyratory Compactor (SGC) Internal Angle of Gyration Using Simulated Loading with a room temperature mold.									
	Pine	e AFLS1 Rapid	Angle Measureme	ent Device	SN	005	Calib	ration Date_	10/06	/2011
								NIST #_	08A0	14.9501
Calibr	ation S	Service Provid	ler							
I hereby certify the standardization services have been performed properly, and that I am an authorized representative of a service organization authorized by Pine Instrument Company.										
Max Technic	e / ian (sign	here)	4312 Date				LLC., Groe and location	ove City, PA	, (724) 458-6391