

Pine AFGC125X Gyratory Compactor Service/Calibration Record

Pine AFGC125XA (115 V 60 Hz) M

Pine AFGC125X (220 V 60Hz) Pine AFGC125XE (220 V 50 Hz)

Serial Number

9-1-15 Technician (sign and date)

UNIVERSITY OF ARKANGAS

PAYETIVILLE, SGC Location (City and State)

SGC Owner (Company Name)

Status of Compactor Prior to Calibration Change

113.9

4-3-12

4-3-12

Machine Hours

Previous SGC Calibration Date

Previous SGC Verification Date

Previous Service Provider (if known)

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

Control Co. 1043

130239644

Stop Watch Model

Serial Number

04/28/2013

Calibration Date

Gyrations	"As Found"	"As Left"	
15	30.02 s	30,00 s	

(15 gyrations in 30 \pm 0.5 seconds is 30 \pm 0.5 GPM)

Consolidation Pressure (Force Measurement)

Pine AFGCLRO5C

1672

Load Ring Model

Serial Number

09/18/2014

Calibration Date

Force	Dial	Dial	Dial	
(N)	(±1 % Range)	"As Found"	"As Left"	
3500	76.1 – 77.7	77.1	77.1	
14500	317.8 – 324.2	321.3	321.7	

Specimen Height (Position Measurement)

Pine AFG123C

Gage Block Model

09/17/2014

5290,5291,5292,5293

Block Calibration Date

Serial Numbers

Height mm (inches)	"As Found"	"As Left"
152.4 mm (6")	152.40 mm	เรว. ฯอ ^{mm}

Internal Angle of Gyration (AASHTO T344-12)

Pine AFLS1 (RAM)

016

Internal Angle Device

Serial Number

09/17/2014

Calibration Date

Mold Identification

Angle Parameter	" As Found"	"As Left"
Top Angle	1.17 °	1.16°
Bottom Angle	1.16°	1.16°
Internal Angle	1.165°	1.16°

Unloaded External Mold Angle

Pine ACGCA001

Angle Gage Model

Angle Parameter	"As Found"	"As Left"
Adjustable Link Gap	"	"
(0.002" to 0.004")	<i>∞</i> 35	$\mathcal{U} \infty_{\circ}$
Intermediate Link Gap	,,	11
(0.002" to 0.004")	<u>,</u> 0025	_ ರಾತ್ರದ
Fixed Link Gap	11	11
(0.0015" to 0.002")	್ಯಿಯತ	<u>_0016</u>
Fixed Ring Gap	11	11
(0.002" to 0.004")	್ರಹಿಳ	•∞ч
Zero Plane R-L	0.005 "	<u> రం</u> లం "
(≤0.001") F-R	0.005"	0.000"
Dial Reading 1	,3097 "	, 3007"
Dial Reading 2	"ddp]_	_(979"
Dial Difference	.1131 "	8111.
Unloaded Angle	1.28°	1,27°

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Pine AFGC125X Gyratory Compactor Service/Calibration Record

☐ Pine AFGC125XA (115 V 60 Hz)

✓ Pine AFGC125X (220 V 60 Hz)

☐ Pine AFGC125XE (220 V 50 Hz)

OIS Serial Number

70 °F Temperature 9-1-15 Date

Machine Settings

Parameter	"As Found"	"As Left"	
Spec. Diameter	150 mm	150 mm	
Pressure	⊘ OO kPa	(000 kPa	
Compaction Mode	SS gyr	p ogyr	
Angle of	o 57≤ int	o DE int	
Gyration	1.16 = ext	1.16 □ ext	
Squaring Delay	O s	O 8	

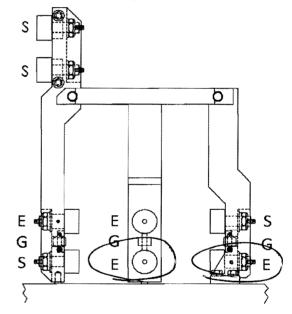
Service Inspection

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

Service Lubrication

	Ram Foot (daily, MoS ₂ powder)
	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*

				•
A 1	.2500 "	.2500 "	B 1	
A2	>>	***	B2	
A3	"	27	В3	

*Applicable only when required

Notes REPLACED 2 ECLENTRIC POLLERS

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

Gyratory Compactor Information

P _{TN} E Manufa	E AC	GC 125X r and Model	OIS Serial Number	Unit SGC	Owner (Company Name) ar	TAYETTUZLE, and Location	AR 70°F Temperature
Rate	of G	yration						
	☐ Calibration service for the rate of gyration was not performed.							
The rate of gyration was standardized to 30.0 ± 0.5 gyrations per minute using a digital stopwatc							stopwatch.	
·	C	ontrol Com	pany Model 1043		SN	130239644	Calibration Date	04/28/2013
							NIST #	100333504
Conso		tion Pressibration se	sure rvice for the consolid	lation press	ure wa	s not performed	I.	
×			tion pressure measure e following apparatu		m was	calibrated to w	ithin $\pm~1.0\%$ by ca	llibrating the applied
	汝	Pine AFG	CLR05C load ring (5	000 lbf)	SN	<u>1672</u>	Calibration Date	09/18/2014
	·						NIST #	822/255038-95
		Interface	1210BDE-5K load co	ell (5000 lb	f) SN	125402A	Calibration Date	09/25/2014
		with	Newport INFCS-00	0 A/E mete	r SN	1245077	NIST#	822/255038-95
Specie	man	Height M	leasurement				-	
Specia		_	rvice for the specime	n height me	easurer	nent system wa	s not performed	
×	The		height measuremen	-		•	•	0.002 in) using the
	M	Pine AFG	123 Gage Block Set	SN	5	290, 5291	Calibration Date	09/17/2014
	4					292, 5293	-	LL010/0802
		Pine AFG	BA04 Calibration To	ıbe SN		012403	Calibration Date	
							-	LL010/0802
Angle	of (Gyration					14101 "_	111010/0002
		•	rvice for the angle of	gyration w	as not	performed.		
			angle of gyration wante		d und	er simulated lo	ading conditions	to $1.25 \pm 0.02^{\circ}$ per
×	The internal angle of gyration was calibrated to $1.16 \pm 0.02^{\circ}$ per AASHTO T344-12 Standard Test Method for Measurement of Superpave Gyratory Compactor (SGC) Internal Angle of Gyration Using Simulated Loading with a room temperature mold.							
	Pin	e AFLS1 R	Rapid Angle Measure	ment Devic	e SN	016	Calibration Date	09/17/2014
							NIST #	LL010/0802
Calib	ratio	n Service	Provider				_	
		ive of a ser	standardization service organization au					am an authorized
Techni	olan (s	ntic 1.	Date 9-1-			st Equipment, I		PA, (724) 458-6393
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