CALSER CORPORATION

P.O. Box 24121, Belleville, IL 62223

(618) 277-0329

ESTING	MACHINE CALIBRATION DATA AND REPORT	
Customer	University of Arkansas	

University of Arkansas Civil Engineering

Fayetteville, AR 72701 Forney 400,000lbf Model QC-400F-LCI

Machine 95037 Serial No.

Location

w/ LC-1 Digital R/O #M9404103 Auxiliary Equipment:

Report #:

VN# 3915

Page 1 of 2 02/05/08 Date of Service Verbal Customer Ωrder No

Order Date Temp.

01/08/08 70 degf 02/13/07 Date Last Done

, and the same of	w/ PT	T 130 10M				•			
Applied Force	•	Indicated Force	Erroi	%	Applied Force		Indicated Force	Error	%
Run #1		"As Found" Condition			Run #2		"As Left" Condition		
400,000lbf Range	*	10lbf / DIV			400,000lbf Range	*	10lbf / DIV		
0	2C	0	0	0.00	Ü	2C	<u> </u>	0	0.00
5,000	2C	5,010	10	0.20	5,000	20	5,010	10	0.20
10,000	3	10,020	20	0.20	10,000	3	10,030	30	0.30
20,000	3	20,040	40	0.20	20,000	3	20,050	50	0.25
40,000	4	40,040	40	0.10	40,000	4	40,060	60	0.15
60,000	4	60,110	110	0.18	00,000	4	60,120	120	0.20
80,000	4	80,140	140	0.18	80,000	1	80,180	180	0.23
100,000	4	100,160	160	0.16	100,000	4	100,200	200	0.20
150,000	4	150,370	370	0.25	150,000	4	150,430	430	0.29
200,000	4	200,740	740	0.37	200,000	4	200,690	690	0.35
250,000	4	251,110	1110	0.44	250,000	4	250,810	810	0.32
300,000	4	301,570	1570	0.52	300,000	4	301,220	1220	0.41
350,000	4	352,140	2140	0.61	350,000	4	351,790	1790	0.51
400,000	4	402,320	2320	0.58	400,000	4	401,890	1890	0.47
0	4	01	0	0.00	0	4	0	0	0.00

Notes:

Calibration in accordance with ASTM E4-07. and Calser Corporation Procedure # 1-01, Rev 1.

*CALIBRATION EQUIPMENT

All vention equipment-including dead weights, proving sings, food cells, lote, is collibrated and traceable to the intest procedures supplied by the National Institute of Etendards and Testing (NIST) and ASTM E74-02. All equipment is tracephic under guidelines set furth in ISO/IEC 17028 - All instrument readings have been corrected for temperature where necessary

	ACCURACY SUMMARY			<u>Verifi</u>	cation Equipment	
Capacity Range	Loading Range	Max. Error	Manufacturer	1 L/G	Rango	Verification Agency
Run 1			and Senat #	1 1	and uncertainty	and Date
400,000lbf Range	5,000 - 400,000	0.61 %	Interface	2 C	312.06 - 10,000 lbf	Morchouse
			106798A C		0.780 lbf	12/26/07
			Strainsense	3	9,491.22-100,000lbf	Morehouse
Run 2			070115		23,728lbf	12/26/07
400,000lbf Range	5,000 - 400,000	0.51 %	Strainsense	4	29,499-400,000lbf	Morehouse
	7		910509D		73,499 lbt	01/17/07
1		1	11	1 1		}

مازنه	ration	Technician	
Calli	31 62 (11, 34)	1 6.50 (2) 11 110 (4.510)	

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This report shall not be copied except in its entirety without express written approval of Calser Corp.

Form# 101 01 Rev. 3

CALSER CORPORATION P.O. BOX 24121 BELLEVILLE, IL 62223 (618)277-0329

TESTING MACHINE CERTIFICATE OF CALIBRATION

Owner : University of Arkansas

Report # : VN# 3915

Location: Civil Engineering

Page: 2 of 2

Fayetteville, AR 72701

Date of Service: 02/05/08

Machine : Forney 400,000lbf Model QC-400F-LCI

Serial No.: 95037

w/ LC-1 Digital R/O #M9404103

W/ PT 130-10M

This is to certify that the testing machine listed above has been calibrated by Calser Corporation personnel.

The method of verification and listed data are in accordance with ASTM E 4-07,

Accuracy of all calibration devices is traceable to the National Institute of Standards and Testing (NIST) and all calculations have been corrected for temperature where applicable.

Capacity Range	Loading Range	Max. Error
Run 1 400,000lbf Range	5,000 - 400,000	0.61 %
Run 2 400,000lbf Range	5,000 - 400,000	0.51 %

Verification Equipment Used:

(400,000 Load Cell Set)

Admet Gage Buster Digital Readout, Serial # GB-9911093

and Load Cell(s) Listed Below:

Serial #	Range	Calib. Date	<u>Uncertainty</u>
106798A-C	312.06-10.000 lbf	12/26/2007	0.780 lbf
070115	9,491.22-100,000 lbf	12/26/2007	23.728 lbf
910509D	36,240-400,000 lbf	12/13/2005	90.6 lbf

This certificate is issued as a statement of the fact that on the above date the fisted testing machine has an accuracy, as indicated. It should not be construed or regarded as a Guarantee or Warranty of any kind (in favor of the client, the client's instrumes, or the public of large) that the testing machine will continue to retain the same percentage (%) of accuracy, or officiency as determined on the date when the calibration, and adjustments if required, was performed and reported by "Calser Corporation" single the cultivator has absolutely an control over the tuture operation, damage, maintenance, repairs, and overall condition of the testing machine and hereby expressly discisins any and all flability for damage or loss sustained by all parties using or resulting from the deterioration, obsolescence, malfunction or substandard, performance of said testing machine; which shall remain the sole responsibility of the machine's regular custodian, lowner, and/or user. This certificate shall not be repossibleed except in hall, without the written approval of Calser Corporation.

CALSER CORPORATION

Quality Control Director

Form# 102-01-Rev 3