

# CALSER CORPORATION

302 N. Belt East, Swansea, IL 62226

(618) 277-0329

## TESTING MACHINE CALIBRATION DATA AND REPORT

Report #: VN# 5532

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Customer	University of Arkansas
Location	Civil Engineering
	Fayetteville, AR 72701
Machine	Forney 400,000lbf Model QC-400F-LC
Serial No.	95037
Auxiliary Equipment:	w/ Forney LC-1 Digital R/O #M9404103
	w/ Dynisco P/T

Date of Service	03/30/10
Cust Order No.	Verbal
Order Date	02/16/10
Temp.	74° F
Date Last Done	03/03/09

Applied Force	*	Indicated Force	Error	%	*	Indicated Force	Error	%	*	Indicated Force	Error	%
Run #1		Run #1	"As Found" Condition			Run #2	"As Left" Condition			Run #3	"As Left" Condition	
400,000lbf Range	*	10lbf / DIV			*				*			
0	2C	0	0	0.00	2C	0	0	0.00	2C	0	0	0.00
5,000	2C	4,970	-30	0.60	2C	4,990	-10	0.20	2C	4,990	-10	0.20
10,000	3	9,940	-60	0.60	3	9,980	-20	0.20	3	9,980	-20	0.20
20,000	3	19,850	-150	0.75	3	19,950	-50	0.25	3	19,960	-40	0.20
40,000	4	39,860	-140	0.35	4	39,930	-70	0.18	4	39,950	-50	0.13
60,000	4	59,710	-290	0.48	4	59,940	-60	0.10	4	59,950	-50	0.08
80,000	4	79,520	-480	0.60	4	79,900	-100	0.13	4	79,890	-110	0.14
100,000	4	99,420	-580	0.58	4	99,920	-80	0.08	4	99,880	-120	0.12
125,000	4	123,950	-1,050	0.84	4	124,870	-130	0.10	4	124,840	-160	0.13
150,000	4	148,320	-1,680	1.12	4	149,820	-180	0.12	4	149,760	-240	0.16
175,000	4	172,790	-2,210	1.26	4	174,680	-320	0.18	4	174,700	-300	0.17
200,000	4	197,120	-2,880	1.44	4	199,720	-280	0.14	4	199,760	-240	0.12
300,000	4	296,900	-3,100	1.03	4	299,860	-140	0.05	4	299,840	-160	0.05
400,000	4	396,780	-3,220	0.81	4	399,930	-70	0.02	4	399,930	-70	0.02
0	4	0	0	0.00	4	0	0	0.00	4	0	0	0.00

### \*CALIBRATION EQUIPMENT

All verification equipment-including dead weights, proving rings, load cells, etc, is calibrated and traceable to the latest procedures stipulated by the National Institute of Standards and Testing (NIST) and ASTM E74-06. All equipment is traceable under guidelines set forth in ISO/IEC 17025. All instrument readings have been corrected for temperature where necessary.

### Notes:

Calibration in accordance with ASTM E4-09, and Calser Corporation Procedure # 1-01, Rev 1.

### ACCURACY SUMMARY

Capacity Range	Loading Range	Max. Error
Run 1		
400,000lbf Range	5,000 - 400,000	1.44 %
Run 2		
400,000lbf Range	5,000 - 400,000	0.25 %
Run 3		
400,000lbf Range	5,000 - 400,000	0.20 %

### VERIFICATION EQUIPMENT

Manufacturer & Serial #	* L/C	Class A Range (in LBs) and Uncertainty (LBF)	Agency & Date
Interface	2 C	295.08 - 10,000 lbf	Morehouse
106798A C		295.08 lbf	12/21/09
Strainsense	3	9,217.50 - 100,000 lbf	Morehouse
070115		23.044 lbf	12/21/09
Strainsense	4	35,003.38 - 400,000 lbf	Morehouse
910509D		87.508 lbf	12/21/09

Calibration Technician Ronnie Agne

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

Form# 103-01-Rev 3

*Lee Ann*