



SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems
Institute Calibration Laboratory
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Certificate of Calibration

Certificate #

0972-01

Submitted By: DIV20

Address: B57

Contact: DON BANNON

Manufacturer Model: OHAUS TS 400D

Description: BALANCE

Serial No: 2883

Asset No: 002345

Procedure: BALANCES & SCALES - 11 APR, 2006

Work Order: 303070035

Date Issued: Jul 5, 2006

Calibration Date: Jul 5, 2006

*Calibration Due: Jan 5, 2007

Calibration Location: B57

Environment: Temp. 75.0°F Hum. 45 %RH

**Data Type: FOUND-LEFT

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 1999, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

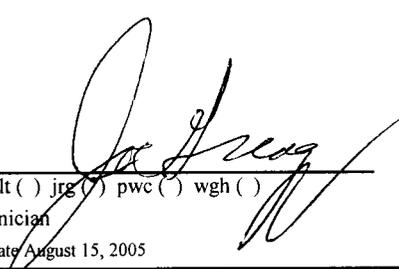
*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

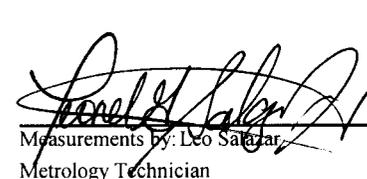
Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

Remarks: None

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
001709	C864	RICE LAKE	20G	WEIGHT, CLASS S	Jun 21, 07
001710	C865	RICE LAKE	20G	WEIGHT, CLASS S	Jun 21, 07
001711	C866	RICE LAKE	50G	WEIGHT, CLASS S	Jun 22, 07
001712	C867	RICE LAKE	100G	WEIGHT, CLASS S	Jun 22, 07
001713	C868	RICE LAKE	200G	WEIGHT, CLASS S	Jun 22, 07
001714	C869	RICE LAKE	200G	WEIGHT, CLASS S	Jun 22, 07

Reviewed by: 
Metrology Technician

Measurements by: 
Metrology Technician

Reviewed by: blt () jrg () pwc () wgh ()

Metrology Technician

m:\a2la1.rpt Rev date August 15, 2005

Measurements by: Leo Salazar

Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303070035	Mfr.	Ohaus	Technician	lgs
Asset No.	002345	Model	TS400D	Cal Date.	05-Jul-06
Serial No.	2883	Type.	Balance		

Remarks:

Ambient Conditions 75 °F 45 % RH 14.33 PSIA

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Corner Load	grams	grams	grams	grams	grams	Result
	Ref	0.00				
Front	0.00	0.00	0.00	0.02	0.012	Pass
Rear	0.00	0.00	0.00	0.02	0.012	Pass
Left	0.00	0.00	0.00	0.02	0.012	Pass
Right	0.00	0.00	0.00	0.02	0.012	Pass
Repeatability						
1	200.00	200.00				
2	200.00	200.00				
3	200.00	200.00				
4	200.00	200.00				
5	200.00	200.00				
6	200.00	200.00				
7	200.00	200.00				
8	200.00	200.00				
9	200.00	200.00				
10	200.00	200.00				
Std Deviation		0.000		0.020		Pass
Linearity	0.00	0.00	0.00	0.02	0.012	Pass
	40.00	40.00	0.00	0.02	0.012	Pass
	80.00	80.00	0.00	0.02	0.012	Pass
	120.00	120.00	0.00	0.02	0.012	Pass
	160.00	160.00	0.00	0.02	0.012	Pass
	200.00	200.00	0.00	0.02	0.012	Pass
	240.00	240.00	0.00	0.02	0.012	Pass
	280.00	280.00	0.00	0.02	0.012	Pass
	320.00	320.00	0.00	0.02	0.012	Pass
	360.00	360.00	0.00	0.02	0.012	Pass
	400.00	400.00	0.00	0.02	0.012	Pass

End of Report