Certificate of Calibration 0972- Submitted By: DIV20 Work Order: 444062466 Address: B57 Date Issued: Jan 14, 2005 Contact: JIM PRIKRYL Calibration Date: Jan 14, 2005 Manufacturer Model: OHAUS TS 400D **Calibration Date: Jul 14, 2005 Description: BALANCE Calibration Location: B57 Serial No: 2883 Environment: Temp. 72.0°F Hum. 17 % Asset No: 002345 *As Found: NT DELERANCE Procedure: BALANCES & SCALES, DEC/04 *As Found: NT DELERANCE Suboristion ISO/IEC 17025, 1999 and ANSINCSL 2540-1-1994 which are equivalent to relevant requiraments of the ISO 9000 1994 series of standards. This certificate shall not be used to claim product endorsement by the American Association for Laboratory Accreditation (A2LA) or any age 1.5. Government. S. Government Incertainty evaluation includes the item under test and is calculated and series on provided to voc. The certainty with the same Wo under for calibration data. The cell has sole responsibility for determination of invout of tolerance or compliance: An in/out of tolerance opinion is provided for your convenience in the Test Instrument (TI) reading(s) and limits as reported. The reported nucertainty w	Submitted By: DIV20 Work Order: 444062466 Address: B57 Date Issued: Jan 14, 2005 Contact: JIM PRIKRYL Calibration Date: Jan 14, 2005 Manufacturer Model: OHAUS TS 400D **Calibration Due: Jun 14, 2005 Description: BALANCE Calibration Date: Jun 14, 2005 Calibration Date: Jun 14, 2005 Description: BALANCE Calibration Date: Jun 14, 2005 Calibration Date: Jun 14, 2005 Serial No: 2883 Environment: Temp, 72.0°F Hum. 17 %RF Asset No: 002345 *As Found: IN TOLERANCE Procedure: BALANCES & SCALES, DEC/04 *As Left: IN TOLERANCE Insurance description in the water approval of the Southwest Research Institute Calibration Laboratory. The Laboratory quality system Insurance description appendent datawe: This certificate shall not be used to claim product endorsement by the American Association for Laboratory Accrediation (A2LA) or any agency S. Government Sovernment Sovernment Guildation includes the item under test and is calculated in accordance with the 180 "Guida to the Expression
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nforms to ISO/IEC 17025, 1999 and ANSI/NCSL Z540-1-1994 which are equivalent to relevant requirements of the ISO 9000-1994 series of standards. This certificate reproduced, except in full, withou the written approval of the Southwest Research Irstitute Calibration Laboratory. The results of this calibration relate only to the ind strument described above. This certificate shall not be used to claim product endorsement by the American Association for Laboratory Accreditation (A2LA) or any age S. Government. The retribution includes the item under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The users of standards the item under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The users of standards are expanded uncertainty using a coverage factor of k=2 to approximate a 95% confidence level. See Remarks or attached Calibration Report with the same Wo mber for calibration data. The client has sole responsibility for determination of in/out of tolerance or compliance/noncompliance. An in/out of tolerance opinion is provided for your convenience the Test Instrument (TI) reading(s) and limits as reported. The reported uncertainty relates only to the results at the time of calibration and does not imply any short or ibility of the TI. Calibration interval is determined by the client and does not assure the instrument will remain within tolerance until this date. Any number of factors may cause the inst out of tolerance before the next calibration date. andards Used andards Used andards Used andards andards b b b b b c c c	nforms to ISO/IEC 17025, 1999 and ANSI/NCSL 2540-1-1994 which are equivalent to relevant requirements of the ISO 9000-1994 series of standards. This certificaie may reprodued, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. The results of this calibration relate only to the individit strument described above. This certificate shall not be used to claim product endorsement by the American Association for Laboratory Accreditation (A2LA) or any agency S. Government. netrainty evaluation includes the item under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncert presents an expanded uncertainty using a coverage factor of k=2 to approximate a 95% confidence level. See Remarks or attached Calibration Report with the same Work O mber for calibration data. The client has sole responsibility for determination of in/out of tolerance or compliance/noncompliance. An in/out of tolerance opinion is provided for your convenience base the Test Instrument (TI) reading(s) and limits as reported. The reported uncertainty relates only to the results at the time of calibration and does not imply any short or long biblity of the TI. Calibration interval is determined by the client and does not assure the instrument will remain within tolerance until this date. Any number of factors may cause the instrument out of tolerance before the next calibration date. andards Used Amsufacturer Model Description Cal Due D D D D D D D D D D
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Approved by: Walt Hill Metrology Group Leader m:\a2la1.rpt Rev date 11, May 04

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Seal

Measurements by: Scott Kester Metrology Technician

Southwest Research Institute Calibration Laboratory Measurement Report

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Work Order:	444062466	Mfr.	Ohaus	• • • • • • • • • • • • • • • • • • •	Technician	SRK
Asset No.	002345	Model	TS400D			
Serial No.	2883	Туре.	Balance		Cal Date.	14-Jan-05
Remarks:						
Ambient Conditions	7'	2 deg F	17	% RH	14 5	3 PSIA
	14			70 1 1 1	14.0	5 T 01A
Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Corner Load	grams	grams	grams	grams	grams	Result
	Ref	200.00				
Front	200.00	200.00	0.00	0.02	0.012	Pass
Rear	200.00	200.00	0.00	0.02	0.012	Pass
Left	200.00	200.00	0.00	0.02	0.012	Pass
Right	200.00	200.00	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
			d of Report	0.02	0.012	

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