

Jr. Curazao Nº 415, Urb. Santa Patricia, I Etapa,

La Molina Lima - Perú Cellphone: 981317680 / 987762168

: ventas@gsl-peru.com www.gsl-peru.com / www.gsl-ndt.pe

Ultrasonic instrument Linearity

: A & B OBRAS SERVICIOS Y CONSULTORIA S.R.L. Customer

Reference Certificate: UT-GSL-0181-024

: Ultrasonic Flaw Detector Instrument

: SIUI Brand

: CTS-9009 PLUS Model : 568320170012 Serial No

Transducer

: SIUI Brand

: P4-25 (Normal) Model

: Ø25 mm Size : 4 MHz Frecuency Serial N° : 12305187R Calibration Standard

: TM TECK Brand

: ISO 2400-2012 Block Standard : Calibration Block V1 Block

: K11109 Serial N°

: Carbon Steel 1018 Material

: Normalized Heat treatment : LLA-115-2024 INACAL calibration

Ambient Temperature

: 26°C / 26°C Start / End of Test : ASTM E 317-21 Reference Standard

VERTICAL LINEARITY S	SIGNAL
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VENTIONE ENVENTED					
N°	Actual Higher	Calc	Actual Lower		
	Signal % (H _A)	½ Higher Signal % (H _B)	Aceptable Limits	Signal %	
1	100	(50)	44-56	51	
2	90	(45)	40-50	46	
3	80	(40)	37-43	41	
4	70	(35)	33-37	35	
5	60	(30)	29-31	30	
6	50	(25)	23-27	25	
7	40	(20)	17-23	20	
8	30	(15)	12-18	15	
9	20	(10)	6-14	10	
10	10	(05)	0-10	05	
		1			

10	, ,	10		(00)					
HORIZONTAL LINEARITY AMPLITUDE				TY AMPLITUDE AMPLITUDE CONTROL LINEARITY					
Ba Refle		Grid Location	Aceptable Limits	Actual Signal	Initial Amplitude	dB Change	Result	Limits	
N°	mm	%	%	%					
1	25	10	9.5-10.5	10.0	80% FSH	Down 6	40	35%-45%	
2	50	20	19.0-21.0	20.0	80% FSH	Down 12	20	15%-25%	
3	75	30	28.5-31.5	30.0	40% FSH	Up 6	80	65%-95%	
4	100	40	38.0-42.0	40.0	20% FSH	Up12	81	65%-95%	
5	125	50	47.5-52.5	50.0					
6	150	60	57.0-63.0	60.0	Note:				
7	175	70	66.5-73.5	70.0	Acceptance limits are ± 5% FSH for Horizontal Linearity				
8	200	80	76.0-84.0	80.0	Amplitude				

(√) This instrument is considered: Acceptable

85.5-94.5

95.0-100

Not acceptable

90.0

100.0

: April 08, 2024 Calibration Date

80 90

100

: April 07, 2025 Recalibration Date

NDT Level III signature

Eng. Julia J. Gutierrez Sulca. ASNT NOT Level III N° 237298 PT-MT-VT-UT-RT-LT

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9

10

225

250



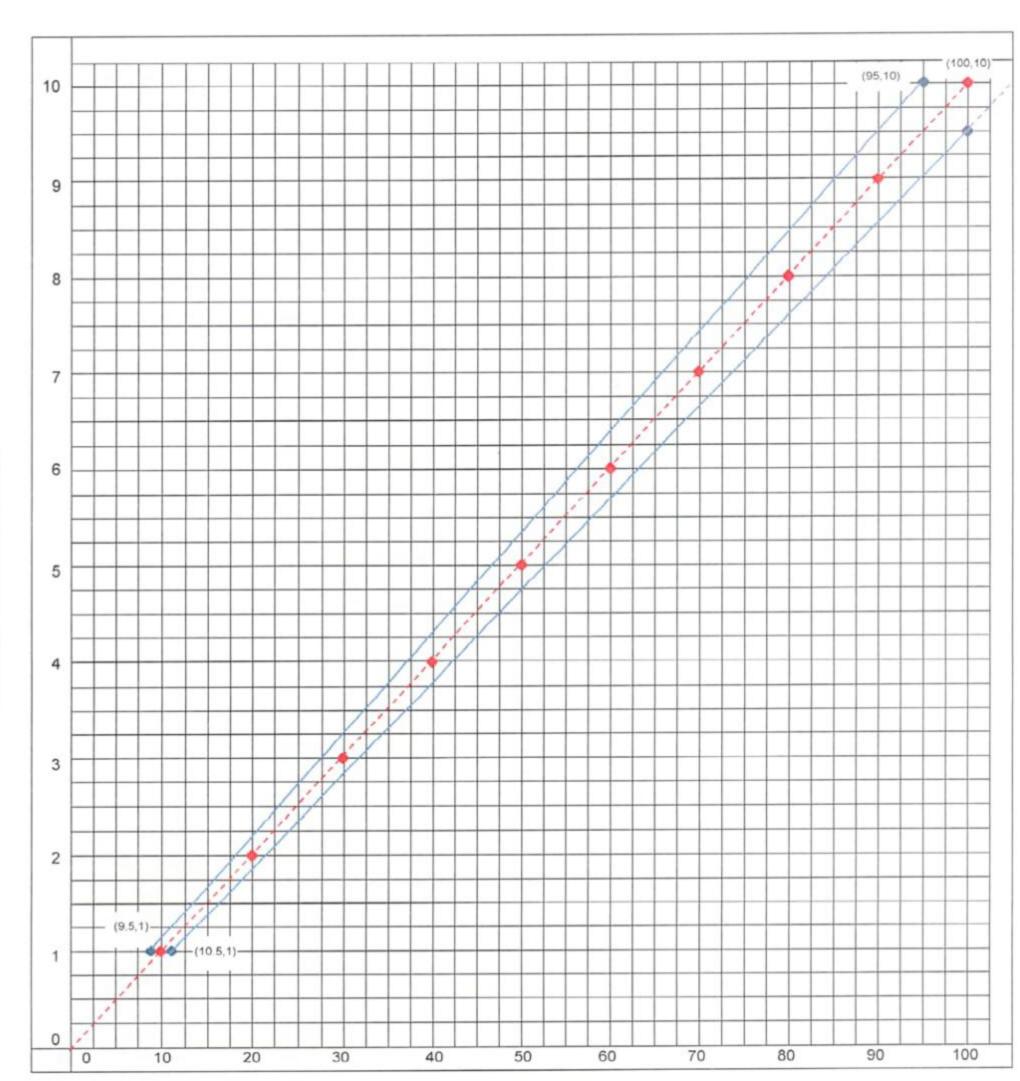
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DATA PLOT FOR DETERMINATION OF HORIZONTAL LINEARITY



POSITION OF SIGNAL ON SWEEP TRACE - PERCENT FULL SCALE

— — — Ideal and Real Linearity Line
Linearity Range Line

Eng. Julio . Gutierrez Sulca. ASNT NDT/Level III N° 237298 PT-MT-VT-UT-RT-LT

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IAT INTER ANDEAN TRADING S.A.C.

DEPARTAMENTO DE CONTROL DE CALIDAD

REGISTRO DE FOTOS DE MEDIDOR DE ESPESORES

CÓDIGO: 2025-IAT-AUT-QA-RG-001

REVISIÓN:

0

FECHA: 1/25/2025



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CALIDAD IAT	PRODUCCIÓN IAT	SUPERVISIÓN CLIENTE	CLIENTE	
LOURDES AMANDO RAMOS Inspectora de Control de Calidad	DAVID MEZA ATAU Ingeniero Residente			