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CERTIFICADO DE TUBERIA

PIPE CERTIFICATE

No. CERTIFICADO (certificate No.):

040488

O.T. (order no.) 33240	DIAMETRO (outside diam.) 12.750"	ESPESOR (thickness) 0.250"	GRADO (grade) A-53-B	ESPECIFICACION (specification) ASTM	PROCESO (process) ERW	PEDIDO (contract) 100000486	O PREPARACION (preparation order) B-124-2004	PROVEEDOR (supplier) AHMSA	FECHA (date) 2/09/04
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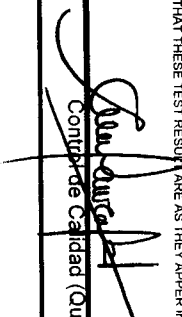
CLIENTE(customer):
PLESA ANAHUAC Y CIAS S.A. DE C.V.
DIRECCION(address): **AV. VALLE DE LAS ALAMEDAS # 66-0 COL. SAN FCO. CHILPAN TULTILIAN, EDO. DE MEXICO C.P. 54940.**

PRUEBA DE TENSION (tension test)				PRUEBA DE IMPACTO (impact test)				ANALISIS QUIMICO / CHEMICAL ANALYSIS (%)																							
TUBO (pipe)	T L Y P O C E	UNIFORMES (uniform)	ORIENTACION (orientation)	TAMANO (size)	BEND	HARNESS	°C ORIENTACION (°C orientation)	ENERGY (Joules)	SHEAR AREA (mm²)	SHEAR AREA (mm²)	GRAN SIZE (grain size)	T L Y P O C E	C	Mn	P	S	SI	Al	Cu	Cr	Ni	Mo	Ti	Nb	B	V	N	Als	Ca	PCM	CE

488	430050	H 7	6	61015	80691	33	0.82	74530	79946	35	0.75	P 7	0.15	0.45	0.019	0.015	0.007	0.050	0.019	0.025	0.015	0.010	0.002	0.001	-	0.003	-	-	-	-	-
64	430075	H 7	6	52122	69247	35	0.75	79750	68230	33	0.78	P 7	0.15	0.45	0.016	0.011	0.013	0.041	0.027	0.027	0.050	0.004	0.001	0.001	-	0.002	-	-	-	-	-
628	230524	H 7	6	53300	74957	33	0.77	65478	66839	32	0.76	P 7	0.15	0.46	0.015	0.015	0.012	0.050	0.017	0.018	0.028	0.012	0.003	0.001	-	0.002	-	-	-	-	-
655	230601	H 7	6	50927	65478	33	0.77	72062	68890	36	0.73	P 7	0.16	0.48	0.013	0.011	0.010	0.042	0.014	0.015	0.033	0.008	0.002	0.001	-	0.002	-	-	-	-	-
730	430077	H 7	6	50761	68890	36	0.73	75428	66839	32	0.76	P 7	0.17	0.45	0.018	0.012	0.011	0.038	0.036	0.050	0.032	0.015	0.002	0.001	-	0.002	-	-	-	-	-
280	230602	H 7	6	50818	73041	32	0.76	66839	73041	32	0.76	P 7	0.17	0.46	0.013	0.010	0.01	0.050	0.020	0.027	0.024	0.009	0.002	0.001	-	0.002	-	-	-	-	-
250	230603	H 7	6	50922	66445	33	0.77	77581	66445	33	0.77	P 7	0.15	0.46	0.015	0.011	0.01	0.049	0.013	0.017	0.022	0.003	0.001	0.001	-	0.002	-	-	-	-	-
115	230606	H 7	6	49299	66150	32	0.74	66150	66150	32	0.74	P 7	0.15	0.46	0.017	0.013	0.01	0.043	0.019	0.036	0.028	0.011	0.002	0.001	-	0.002	-	-	-	-	-

PRUEBA HIDROSTATICA: (hydrostatic test)	PRESSION (pressure)	820	Psi	TIEMPO (time)	10	sec	ORIENTACION(orientation): 1. TRANSVERSAL (transverse) 2. LONGITUDINAL (longitudinal) TAMANO (size) 3. RECTANGULAR (rectangular) 4. CILINDRICA (round bar) 0.500" 5. CILINDRICA (round bar) 0.350" LOCALIZACION (location)	6 SOLDADURA (weld) 7 METAL BASE (base metal) 8 ZONA AFECTADA (h.a.z) 9 LINEA DE FUSION (fusion line) TIPO DE PRUEBA (type) H COLADA (heat) P PRODUCTO (product) R REMUESTRO (recheck)	CERTIFICAMOS QUE EL MATERIAL DESCRITO HA SIDO HECHO DE ACUERDO CON LA ESPECIFICACION MENCIONADA Y QUE LOS RESULTADOS SON COMO APARECEN EN LOS REGISTROS DE LA COMPANIA. RESULTS ARE AS THEY APPEAR IN RECORDS OF THE COMPANY. (WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MADE IN ACCORDANCE WITH THE SPECIFICATION MENTIONED AND THAT THESE TEST RESULTS ARE AS THEY APPEAR IN RECORDS OF THE COMPANY.)
ULTRASONICO (U.L.) (ultrasonic)	STANDARD DE REFERENCIA REFERENCE STANDARD	G							
RAYOS-X (RT) (x-ray)	PENETRIMETRO (penetration)	N/A							
NORMALIZACION DE SOLDADURA: (heat treatment/weld)	TEMPERATURA (temperature)	1600° F.							
REFERENCIA STANDARD REFERENCE STANDARD	F U.T. DRILLED HOLE 1/16" G U.T. DRILLED HOLE 1/8" F U.T. NOTCH N-5, J U.T. NOTCH V-10L RT HOLE 1/16" N RT HOLE 2.2T O RT HOLE 2.4T								

REV. 1 Sep-99


 Juan Quintana
 Control de Calidad (Quality Control)
