

CERTIFICADO DE TUBERIA

081277



Ave. Guerrero
No. 3729 Int.
Col. Del Norte
Monterrey, N.L., Mexico
CP 64490
TEL: 3655555
FAX: 3655980

PIPE CERTIFICATE

No. CERTIFICADO (certificate No.):

081277

CLIENTE (customer):
PESA ANAHUAC Y CIA S. SA. DE CV.

DIRECCION (address):
AV. VALLE DE LAS ALAMEDAS # 66-0 COL. SAN FCO CHILPAN TULITLILAN, EDO DE MEXICO, C.P. 54940

O. PREPARACION (preparation order):
TR-254-2008

PROVEEDOR (supplier):
AHMSA

FECHA (date):
23/12/2008

O.I. (order no.) 23120	DIAMETRO (outside diam.) 36.000"	ESPESOR (thickness) 0.500"	GRADO (grade) X42/5LB PSL1A53B	ESPECIFICACION (specification) API 5L 43 EDA S.T.M.	PROCESO (process) DSAW	PEDIDO (contract) 5573	O. PREPARACION (preparation order) TR-254-2008	PROVEEDOR (supplier) AHMSA	FECHA (date) 23/12/2008
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TIPO O SERIE (SERIAL)	COLADA (year)	T P C	UNIDADES (units)	ORIENTACION (orientation)	TAMANO (size)	BEND	PRUEBA DE IMPACTO (impact test)		DMTT	GRAN SIZE	T P C	C M n	P	S	SI	Al	Cu	Cr	Ni	Mo	T	Nb	B	V	N	Als	Ca	PCM	CE	
							ENERGY (ft·lb)	Avg																						TAMANO (size)
181	269213	H 7	6	76100	38	0.79	1	2	3	Avg	H 7	0.17	0.58	0.017	0.007	0.134	0.040	0.030	0.030	0.030	0.005	0.003	0.001	0.002	0.001	0.002	0.001	0.001	0.20	0.26
159	269216	H 7	6	74000	36	0.77	1	2	3	Avg	H 7	0.18	0.55	0.017	0.006	0.135	0.042	0.006	0.016	0.020	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.21	0.27
167	269218	H 7	6	75700	36	0.76	1	2	3	Avg	H 7	0.15	0.60	0.013	0.012	0.112	0.044	0.030	0.030	0.030	0.005	0.002	0.001	0.002	0.001	0.002	0.001	0.001	0.21	0.28
86	269211	H 7	6	73900	36	0.76	1	2	3	Avg	H 7	0.22	0.57	0.014	0.008	0.135	0.055	0.011	0.018	0.023	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.21	0.27
		H 7	6	72400	36	0.76	1	2	3	Avg	H 7	0.15	0.59	0.014	0.007	0.140	0.046	0.030	0.030	0.030	0.005	0.002	0.001	0.002	0.001	0.002	0.001	0.001	0.21	0.27
		H 7	6	70900	36	0.76	1	2	3	Avg	H 7	0.17	0.55	0.018	0.006	0.128	0.040	0.013	0.024	0.023	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.21	0.27
		H 7	6	269211	6	OK	1	2	3	Avg	H 7	0.17	0.56	0.016	0.009	0.132	0.043	0.016	0.025	0.023	0.001	0.001	0.001	0.002	0.001	0.002	0.001	0.001	0.20	0.27

PRUEBA HIDROSTATICA
(Hydrostatic test)

ULTRASONIDO (U.I.):
(ultrasonic)

RAYOS X (RT):
(X-ray)

NORMALIZADO DE SOLDADURA:
(heat treatment weld)

REFERENCIA STANDARD
(U.I. NOTCH No. 3 U.I. NOTCH H-10 L RT HOLE 1/8" N RT HOLE 2/21 O RT HOLE 2/41)

PRUEBA DE TENSION (tensile test)

PRUEBA DE IMPACTO (impact test)

DMTT

GRAN SIZE

(%ANALISIS QUIMICO / chemical analysis (%))

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. COMO APARECEN EN LOS REGISTROS DE LA COMPANIA. (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 THE COMPANY'S RECORDS.)
TUBACERO, S.A. DE C.V.

CONTROL DE CALIDAD (Quality Control)

REV. 2 May-07

F-TIME-013