



PROCARSA, S.A. DE C.V.

CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: PESA ANAHUAC, S.A. DE C.V.

CUSTOMER:

PEDIDO CLIENTE / P.O.:

PARTIDA (S)

ITEMS

12160

FECHA
DATE
MAYO 24, 2004

DIAMETRO: 16"
VALOR: 16"
ESPESOR DE PARED
WALL THICKNESS

GRADO: API 5L X-42

PRESSION HIDROSTATICA:

ANALISIS QUIMICO % EN PESO

157 Kg/cm² 2230 PSI

NUMERO
NUMBER
FTM-58590-2004

PRUEBAS DE TENSION TENSILE TEST

NUMERO DE DESCRIPCION	GRABA BEAT	LIMITE ELASTICO YIELD STRENGTH (KSI)	ULTIMA TENSION TENSILE STRENGTH (KSI)	% ELONG. % ELONG.	LEJAT YATE	C	Ma	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	NI	Mo	N	Ceq
1-4 TC	140618	50 564	70 524	35	0.72	0.168	1.10	0.016	0.006	0.001	0.003	0.003	0.204	0.029	0.032	0.0022	0.018	0.025	0.003		0.0054
TS			73 255	36	0.74	0.170	1.10	0.020	0.005	0.001	0.003	0.004	0.220	0.052	0.035	0.0019	0.013	0.029	0.003		0.0052
4-6 TC	140621	52 273	71 038	35	0.74	0.169	1.10	0.012	0.007	0.001	0.003	0.004	0.235	0.029	0.040	0.0023	0.010	0.027	0.002		0.0064
TS			68 530	37	0.77	0.167	1.11	0.015	0.006	0.001	0.002	0.004	0.226	0.047	0.045	0.0024	0.015	0.029	0.003		0.0051
6-7 TC	240682	50 448	74 491	38	0.75	0.159	1.11	0.015	0.005	0.001	0.003	0.004	0.224	0.038	0.043	0.0024	0.019	0.030	0.004		0.0071
TS			70 708																		
11-8 TC	240683	54 391	73 315																		
TS			71 645																		
2-7 TC	240684	54 007	76 749																		
TS																					

CONFIRMAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO
BRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO
EN LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

WE CERTIFY THE PIPE ABOVE MENTIONED ACCOMPLISH AND HAS
BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN
ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SPECIFICATIONS:

API SPECIFICATION SL

FORTY-SECOND EDITION, JANUARY, 2000
EFFECTIVE DATE: JULY 1, 2000

ING. FERNANDO OSORIO PEREZ
GERENTE DE ASEGURAMIENTO DE CALIDAD
QUALITY ASSURANCE MANAGER