



FLM-005-7

PROCARSA, S.A. DE C.V.
CERTIFICADO DE CALIDAD
DE PRUEBAS FISICAS-QUIMICAS

QUALITY CERTIFICATE OF TEST PHYSICALS-CHEMICAL

CLIENTE: TUCOTA
CUSTOMER:
PEDIDO CLIENTE/P.O. 8057
PEDIDO INTERNO/I.O.
PARTIDA(S) JP-3-00 / JP-6-01

NUMERO PTM-S0261-2001
FECHA DICIEMBRE 12, 2001
DATE

DIAMETRO: 24" ESPESOR DE PARED: 0.375" GRADO: API 5L X-42
WALL THICKNESS: 0.375" GRADE: API 5L X-42
PRESION HIDROSTATICA: 83 Kg/cm² 1180 PSI
HIDROSTATIC TEST: CHEMICAL ANALYSIS PERCENT WEIGHT

NUM/PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LEQUIT Y/ST'S	CHEMICAL ANALYSIS PERCENT WEIGHT														
						C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N
68-3 TC TS	ZN2597	58 558	65 746 69 389	39	0.89	0.080	0.77	0.018	0.010	0.010	-	-	0.180	0.020	0.017	-	0.030	0.020	-	0.0020
32-4 TC TS	ZY2690	57 146	69 846 72 758	37	0.82	0.080	0.78	0.017	0.012	0.010	-	-	0.200	0.010	0.022	-	0.030	0.020	-	0.0020
108-9 TC TS	ZN3478	57 760	67 065 70 922	41	0.86	0.080	0.74	0.015	0.007	0.010	-	-	0.200	0.020	0.018	-	0.030	0.020	-	0.0020

CERTIFICAMOS QUE LA TUBERIA AQUI DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON 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 5L
FORTY-SECOND EDITION, JANUARY, 2000
EFFECTIVE DATE : JULY 1, 2000

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