FLM-005-7

PROCARSA, S.A. DE C.V.

CERTIFICADO DE INSPECCION DE PRUEBAS MECANICAS Y ANALISIS QUIMICO

INSPECTION CERTIFICATE OF MECHANICAL TESTS AND CHEMICAL ANALYSES

CLIENTE: PLESA ANAHUAC Y CIAS. S.A. DE C.V.
CUSTOMER:

NUMERO / NUMBER: PTM-05833-2018

PEDIDO CLIENTE /P.O.
PEDIDO INTERNO / I.O. 16609
PARTIDA (S)
ITEMS 208652-10

FECHA / DATE: MARZO 17, 2018

DIAMETRO EXTERIOR / OUTSIDE DIAMETER: 20"
ESPESOR DE PARED / WALL THICKNESS: 0.250"
GRADO / GRADE: ASTM A53-B
PRESION HIDROSTATICA / HIDROSTATIC TEST: 37 Kg/cm^2 530 PSI

REQUERIMIENTOS DE PRUEBAS DE TENSION / TENSILE TEST REQUIREMENTS				REQUERIMIENTOS DE ANALISIS QUIMICO % EN PESO / CHEMICAL ANALYSES BY PERCENTAGE OF WEIGHT REQUIREMENTS																
LIMITE ELASTICO / YIELD STRENGTH	ULTIMA TENSION / TENSILE STRENGTH	% ELONG.	L.E./U.T.	C	Mn	P	S	Cb	Cb+V	Cb+V+Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	CE IIW	CE Pcm
35000 PSI MIN.	60000 PSI MIN.	26 min.	---	0.300 max	1.200 max	0.050 max	0.045 max	---	---	---	---	0.500 max	---	---	0.400 max	0.400 max	0.150 max	---	---	---

NUM.PROBETA DESCRIPTION	COLADA HEAT	LIMITE ELASTICO YIELD STRENGTH (P.S.I.)	ULTIMA TENSION TENSILE STRENGTH (P.S.I.)	% ELONG. 2"	LE/U.T Y.S/T.S	C	Mn	P	S	Cb	V	Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	CE IIW	CE Pcm
12-1 Tc	179239	54 201	74 373	38	0.73	0.084	1.18	0.012	0.005	0.018	0.002	0.008	0.210	0.019	0.032	0.003	0.014	0.015	0.005	0.005		
Ts			73 595																			
69-17 Tc	179245	55 981	71 693	40	0.78	0.067	1.12	0.013	0.004	0.019	0.002	0.008	0.200	0.018	0.036	0.002	0.012	0.017	0.005	0.006		
Ts			74 597																			
40-17 Tc	279038	57 092	73 220	39	0.78	0.071	1.15	0.018	0.008	0.019	0.004	0.011	0.220	0.022	0.042	0.002	0.026	0.023	0.009	0.005		
Ts			78 333																			
16-18 Tc	279040	55 601	72 852	38	0.76	0.067	1.18	0.015	0.006	0.018	0.003	0.009	0.200	0.021	0.039	0.003	0.022	0.017	0.006	0.005		
Ts			75 090																			
9-17 Tc	279041	56 046	72 182	40	0.78	0.069	1.15	0.014	0.006	0.018	0.002	0.010	0.220	0.035	0.043	0.002	0.020	0.020	0.005	0.005		
Ts			73 371																			
44-17 Tc	279044	57 501	73 658	42	0.78	0.072	1.15	0.017	0.004	0.018	0.004	0.009	0.200	0.016	0.038	0.002	0.024	0.017	0.005	0.005		
Ts			72 835																			
5-17 Tc	279045	57 948	72 302	32	0.80	0.068	1.14	0.017	0.005	0.018	0.005	0.010	0.220	0.039	0.043	0.002	0.021	0.020	0.006	0.005		
Ts			75 436																			
36-17 Tc	279046	55 430	74 613	37	0.74	0.066	1.13	0.016	0.004	0.017	0.004	0.010	0.220	0.016	0.041	0.003	0.013	0.016	0.005	0.005		
Ts			79 013																			
8-17 Tc	279047	53 081	70 463	40	0.75	0.075	1.15	0.014	0.006	0.018	0.002	0.009	0.200	0.022	0.038	0.003	0.019	0.019	0.006	0.006		
Ts			76 396																			
80-17 Tc	2710075	54 822	72 292	40	0.76	0.079	1.14	0.014	0.005	0.018	0.003	0.008	0.220	0.023	0.029	0.003	0.020	0.014	0.003	0.005		
Ts			76 214																			

CERTIFICAMOS QUE LA TUBERIA AQUÍ DESCRITA CUMPLE Y HA SIDO FABRICADA, MUESTREADA, PROBADA E INSPECCIONADA DE ACUERDO CON LOS REQUISITOS APLICABLES DE LA ESPECIFICACION:

ASTM A53

WE CERTIFY THAT THE ABOVE DESCRIBED PIPE HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATION, AND MEETS THE APPLICABLE REQUIREMENTS THEREIN

ING. ALEJANDRO ALARCON CAZARES
JEFE DE LABORATORIO METALURGICO
METALLURGICAL LABORATORY CHIEF