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: / CUSTOMER:	PLESA ANAHUAC Y CIAS. S.A. DE C.V.
NUMERO / NUMBER	PTM-07993-1-2019
PEDIDO CLIENTE / P.O.	
PEDIDO INTERNO / I.O.	0269
FECHA / DATE	ENERO 25, 2019
PARTIDA (S) / ITEMS	149808-10 / 116746-30 / 141053-10 / 102742-40

DIAMETRO EXTERIOR : / OUTSIDE DIAMETER :	12 3/4"	ESPESOR DE PARED : / WALL THICKNESS :	0.500"
GRADO : / GRADE :	ASTM A53-B	PRESION HIDROSTATICA: / HIDROSTATIC TEST:	116 Kg/cm² 1,650 PSI

REQUERIMIENTOS DE PRUEBAS DE TENSION / TENSILE TEST REQUIREMENTS				C	Mn	P	S	Cb	Cb+V	Cb+V+Ti	Si	Cu	Al	Ca	Cr	Ni	Mo	N	CE IIW	CE Pcm
LIMITE ELASTICO / YIELD STRENGTH	ULTIMA TENSION / TENSILE STRENGTH	% ELONG.	L.E./U.T.																	
35000 PSI MIN.	60000 PSI MIN.	30 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"	L.E./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
16-11 Tc	141652	51 420	65 801	43	0.78	0.105	0.81	0.016	0.005	0.002	0.002	0.003	0.224	0.028	0.041	0.0033	0.019	0.022	0.006	0.0051		
Ts			71 729																			
15-10 Tc	141653	51 998	64 700	44	0.80	0.111	0.80	0.016	0.003	0.002	0.003	0.002	0.215	0.022	0.039	0.0023	0.016	0.020	0.005	0.0053		
Ts			70 818																			
14-11 Tc	141656	57 235	69 299	31	0.82	0.106	0.81	0.013	0.005	0.002	0.002	0.003	0.232	0.017	0.038	0.0026	0.016	0.017	0.004	0.0054		
Ts			64 897																			
4-2 Tc	209364	68 405	77 370	40	0.88	0.056	0.66	0.017	0.003	0.033	0.003	0.004	0.195	0.228	0.034	0.0026	0.022	0.017	0.005	0.0053		
Ts			76 800																			
26-10 Tc	234792	65 848	76 311	36	0.86	0.068	0.75	0.017	0.002	0.031	0.004	0.002	0.183	0.222	0.041	0.0042	0.012	0.024	0.004	0.0050		
Ts			73 644																			
8-12 Tc	234793	63 438	74 223	40	0.85	0.067	0.65	0.012	0.003	0.033	0.002	0.002	0.185	0.228	0.038	0.0037	0.014	0.023	0.004	0.0057		
Ts			76 548																			
13-8 Tc	241383	54 841	63 492	45	0.86	0.119	0.81	0.015	0.004	0.002	0.0020	0.004	0.229	0.019	0.044	0.005	0.015	0.018	0.004	0.0053		
Ts			69 984																			
13-13 Tc	490114	52 780	62 701	44	0.84	0.123	0.77	0.012	0.007	0.001	0.0030	0.003	0.274	0.010	0.039	0.004	0.020	0.020	0.006	0.0052		
Ts			70 591																			

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 A. ARCON CAZARES
JEFE DE LABORATORIO METALURGICO
METALLURGICAL LABORATORY CHIEF