



REPORTE DE CALIDAD DE TUBERIA (Quality Report)

Cod: FPD-PR-01-06

SISTEMA DE GESTION DE LA CALIDAD

Edición : 0

Revision: 4

Fecha de Rev: 15 Junio 2013

HSS-4x4-3/8-40

4x4 3/8 40

REPORTE FS
(Report No.)

Fecha:
15 - Julio - 2013.

-2

Tipo de Producto (Type of Pipe/Delivery Condition):	Orden Interna de Fabricacion (Work Order)	Diámetro (Diameter)	Medida (Size)	Espesor (Thickness) pulg (ft)	Espesor (Thickness) pulg (mm)	Longitud (Length) mtrs	Longitud (Length) pies (ft)	Norma (Specification):	Grado (Grade):	Peso (mass) lbs.	Peso (mass) kg.	Tamaño (Size)	Peso Lineal (Mass per meter) lbs. X pie	Peso Lineal (Mass per meter) kg. X mtr.	Numeros de Tubo (Pipe Number)					
																Composición Química del Acero (Steel Chemical Composition).				
# lote	# colada (Heat).	C	Si	Mn	P	S	V	B	Cr	Cu	Ni	Mo	Ciw	Límite Tracción (Tensile Strength) KSI (MPA)			Límite Elástico (Yield Point) KSI (MPA)		% Elongación (Elongation)	
														L	T	W	L	T	L	T
293-100-10	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-11	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-12	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-13	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-14	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-15	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-2	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-3	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-4	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-5	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-6	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-7	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-8	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-100-9	133641	0.159	0.121	0.821	0.015	0.006	0	0	0.022	0.017	0.016	0.005	0.20663333	73.97(508.72)	N/A	N/A	54.25(373.09)	N/A	34	N/A
293-101-10	132806	0.164	0.133	0.81	0.02	0.007	0	0	0.024	0.025	0.02	0.001	0.21178333	75.64(520.20)	N/A	N/A	56.25(386.85)	N/A	38	N/A
293-101-11	132806	0.164	0.133	0.81	0.02	0.007	0	0	0.024	0.025	0.02	0.001	0.21178333	75.64(520.20)	N/A	N/A	56.25(386.85)	N/A	38	N/A
293-101-12	132806	0.164	0.133	0.81	0.02	0.007	0	0	0.024	0.025	0.02	0.001	0.21178333	75.64(520.20)	N/A	N/A	56.25(386.85)	N/A	38	N/A
293-101-13	132806	0.164	0.133	0.81	0.02	0.007	0	0	0.024	0.025	0.02	0.001	0.21178333	75.64(520.20)	N/A	N/A	56.25(386.85)	N/A	38	N/A
293-101-14	132806	0.164	0.133	0.81	0.02	0.007	0	0	0.024	0.025	0.02	0.001	0.21178333	75.64(520.20)	N/A	N/A	56.25(386.85)	N/A	38	N/A
293-101-15	132806	0.164	0.133	0.81	0.02	0.007	0	0	0.024	0.025	0.02	0.001	0.21178333	75.64(520.20)	N/A	N/A	56.25(386.85)	N/A	38	N/A
293-101-3	132806	0.164	0.133	0.81	0.02	0.007	0	0	0.024	0.025	0.02	0.001	0.21178333	75.64(520.20)	N/A	N/A	56.25(386.85)	N/A	38	N/A
293-101-4	132806	0.164	0.133	0.81	0.02	0.007	0	0	0.024	0.025	0.02	0.001	0.21178333	75.64(520.20)	N/A	N/A	56.25(386.85)	N/A	38	N/A
293-101-5	132806	0.164	0.133	0.81	0.02	0.007	0	0	0.024	0.025	0.02	0.001	0.21178333	75.64(520.20)	N/A	N/A	56.25(386.85)	N/A	38	N/A
293-101-9	132806	0.164	0.133	0.81	0.02	0.007	0	0	0.024	0.025	0.02	0.001	0.21178333	75.64(520.20)	N/A	N/A	56.25(386.85)	N/A	38	N/A
293-102-2	129193	0.154	0.117	0.811	0.014	0.005	0	0	0.017	0.037	0.014	0.009	0.20198333	72.75(500.33)	N/A	N/A	54.18(372.61)	N/A	36	N/A
293-102-3	129193	0.154	0.117	0.811	0.014	0.005	0	0	0.017	0.037	0.014	0.009	0.20198333	72.75(500.33)	N/A	N/A	54.18(372.61)	N/A	36	N/A
293-102-4	129193	0.154	0.117	0.811	0.014	0.005	0	0	0.017	0.037	0.014	0.009	0.20198333	72.75(500.33)	N/A	N/A	54.18(372.61)	N/A	36	N/A
293-102-5	129193	0.154	0.117	0.811	0.014	0.005	0	0	0.017	0.037	0.014	0.009	0.20198333	72.75(500.33)	N/A	N/A	54.18(372.61)	N/A	36	N/A
293-102-6	129193	0.154	0.117	0.811	0.014	0.005	0	0	0.017	0.037	0.014	0.009	0.20198333	72.75(500.33)	N/A	N/A	54.18(372.61)	N/A	36	N/A
293-102-7	129193	0.154	0.117	0.811	0.014	0.005	0	0	0.017	0.037	0.014	0.009	0.20198333	72.75(500.33)	N/A	N/A	54.18(372.61)	N/A	36	N/A
293-103-10	233339	0.065	0.019	0.759	0.008	0.005	0	0	0	0	0	0	0.10358333	71.94(494.75)	N/A	N/A	52.31(359.75)	N/A	38	N/A
293-103-11	233339	0.065	0.019	0.759	0.008	0.005	0	0	0	0	0	0	0.10358333	71.94(494.75)	N/A	N/A	52.31(359.75)	N/A	38	N/A
293-103-12	233339	0.065	0.019	0.759	0.008	0.005	0	0	0	0	0	0	0.10358333	71.94(494.75)	N/A	N/A	52.31(359.75)	N/A	38	N/A
293-103-14	233339	0.065	0.019	0.759	0.008	0.005	0	0	0	0	0	0	0.10358333	71.94(494.75)	N/A	N/A	52.31(359.75)	N/A	38	N/A
293-103-15	233339	0.065	0.019	0.759	0.008	0.005	0	0	0	0	0	0	0.10358333	71.94(494.75)	N/A	N/A	52.31(359.75)	N/A	38	N/A
293-103-16	233339	0.065	0.019	0.759	0.008	0.005	0	0	0	0	0	0	0.10358333	71.94(494.75)	N/A	N/A	52.31(359.75)	N/A	38	N/A
293-103-17	233339	0.065	0.019	0.759	0.008	0.005	0	0	0	0	0	0	0.10358333	71.94(494.75)	N/A	N/A	52.31(359.75)	N/A	38	N/A



REPORTE DE CALIDAD DE TUBERIA (Quality Report)

Cod: FPD-PR-01-06

SISTEMA DE GESTION DE LA CALIDAD

Edicion : 0 Revisión: 4

Fecha de Rev: 15 Junio 2013

293-110-8	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-110-9	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-10	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-11	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-12	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-13	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-14	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-2	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-3	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-4	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-5	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-6	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-7	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-8	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-111-9	132302	0.164	0.1178	0.837	0.017	0.007	0	0	0.021	0.021	0.016	0.008	0.212676667	73.44(505.07)	N/A	N/A	54.43(374.33)	N/A	39	N/A
293-112-10	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-112-11	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-112-12	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-112-13	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-112-14	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-112-2	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-112-3	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-112-4	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-112-5	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-112-6	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-112-7	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-112-9	431362	0.163	0.1186	0.814	0.014	0.008	0	0	0.021	0.027	0.021	0.001	0.21047	74.12(509.75)	N/A	N/A	57.01(392.07)	N/A	41	N/A
293-113-10	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-113-11	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-113-12	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-113-13	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-113-2	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-113-3	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-113-4	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-113-5	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-113-6	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-113-7	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-113-8	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-113-9	129178	0.175	0.117	0.839	0.015	0.005	0	0	0.017	0.023	0.015	0.008	0.223633333	71.94(494.75)	N/A	N/A	51.73(355.76)	N/A	41	N/A
293-21-21	261922011	0.144	0.01	0.56	0.013	0.012	0.001	0	0.02	0.02	0.02	0.001	0.174833333	71.2(491)	N/A	N/A	63.4(417)	N/A	32	N/A
293-25-16	1301268800	0.065	0.024	0.774	0.008	0.002	0	0	0	0	0	0	0.1045	N/A	69.8(481)	71.19(489.60)	N/A	60.4(416)	N/A	32
293-30-11	1305200880	0.133	0.0065	0.558	0.018	0.015	0.002	0	0.021	0.027	0.018	0.002	0.16415	85.58(588.56)	N/A	N/A	67.72(465.73)	N/A	30	N/A
293-30-14	1305200880	0.133	0.0065	0.558	0.018	0.015	0.002	0	0.021	0.027	0.018	0.002	0.16415	85.58(588.56)	N/A	N/A	67.72(465.73)	N/A	30	N/A
293-30-15	1305200880	0.133	0.0065	0.558	0.018	0.015	0.002	0	0.021	0.027	0.018	0.002	0.16415	85.58(588.56)	N/A	N/A	67.72(465.73)	N/A	30	N/A
293-32-2	1301192470	0.06	0.01	0.798	0.007	0.005	0	0	0	0	0	0	0.100233333	N/A	70.5(486)	71.91(494.55)	N/A	60.3(416)	N/A	33
293-32-3	1301192470	0.06	0.01	0.798	0.007	0.005	0	0	0	0	0	0	0.100233333	N/A	70.5(486)	71.91(494.55)	N/A	60.3(416)	N/A	33
293-32-4	1301192470	0.06	0.01	0.798	0.007	0.005	0	0	0	0	0	0	0.100233333	N/A	70.5(486)	71.91(494.55)	N/A	60.3(416)	N/A	33
293-32-5	1301192470	0.06	0.01	0.798	0.007	0.005	0	0	0	0	0	0	0.100233333	N/A	70.5(486)	71.91(494.55)	N/A	60.3(416)	N/A	33
293-33-21	1301192470	0.06	0.01	0.798	0.007	0.005	0	0	0	0	0	0	0.100233333	N/A	70.5(486)	71.91(494.55)	N/A	60.3(416)	N/A	33
293-34-21	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-36-14	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-38-14	1305200880	0.133	0.0065	0.558	0.018	0.015	0.002	0	0.021	0.027	0.018	0.002	0.16415	85.58(588.56)	N/A	N/A	67.72(465.73)	N/A	30	N/A



REPORTE DE CALIDAD DE TUBERIA (Quality Report)

Cod: FPD-PR-01-06

SISTEMA DE GESTION DE LA CALIDAD

Edicion : 0 Revislon: 4

Fecha de Rev: 15 Junio 2013

293-38-19	1305200880	0.133	0.0065	0.558	0.018	0.015	0.002	0	0.021	0.027	0.018	0.002	0.16415	85.58(588.56)	N/A	N/A	67.72(465.73)	N/A	30	N/A
293-38-9	1305200880	0.133	0.0065	0.558	0.018	0.015	0.002	0	0.021	0.027	0.018	0.002	0.16415	85.58(588.56)	N/A	N/A	67.72(465.73)	N/A	30	N/A
293-39-3	1305200880	0.133	0.0065	0.558	0.018	0.015	0.002	0	0.021	0.027	0.018	0.002	0.16415	85.58(588.56)	N/A	N/A	67.72(465.73)	N/A	30	N/A
293-39-4	1305200880	0.133	0.0065	0.558	0.018	0.015	0.002	0	0.021	0.027	0.018	0.002	0.16415	85.58(588.56)	N/A	N/A	67.72(465.73)	N/A	30	N/A
293-40-11	261922011	0.144	0.01	0.56	0.013	0.012	0.001	0	0.02	0.02	0.02	0.001	0.174833333	71.2(491)	N/A	N/A	63.4(437)	N/A	32	N/A
293-40-12	261922011	0.144	0.01	0.55	0.013	0.012	0.001	0	0.02	0.02	0.02	0.001	0.174833333	71.2(491)	N/A	N/A	63.4(437)	N/A	32	N/A
293-40-13	261922011	0.144	0.01	0.56	0.013	0.012	0.001	0	0.02	0.02	0.02	0.001	0.174833333	71.2(491)	N/A	N/A	63.4(437)	N/A	32	N/A
293-40-14	261922011	0.144	0.01	0.56	0.013	0.012	0.001	0	0.02	0.02	0.02	0.001	0.174833333	71.2(491)	N/A	N/A	63.4(437)	N/A	32	N/A
293-40-17	261922011	0.144	0.01	0.56	0.013	0.012	0.001	0	0.02	0.02	0.02	0.001	0.174833333	71.2(491)	N/A	N/A	63.4(437)	N/A	32	N/A
293-40-20	261922011	0.144	0.01	0.55	0.013	0.012	0.001	0	0.02	0.02	0.02	0.001	0.174833333	71.2(491)	N/A	N/A	63.4(437)	N/A	32	N/A
293-40-9	261922011	0.144	0.01	0.55	0.013	0.012	0.001	0	0.02	0.02	0.02	0.001	0.174833333	71.2(491)	N/A	N/A	63.4(437)	N/A	32	N/A
293-44-14	1301192461	0.057	0.007	0.798	0.008	0.007	0	0	0	0	0	0	0.097133333	N/A	69.8(481)	71.19(489.60)	N/A	59.4(410)	N/A	35
293-46-19	1301192470	0.06	0.01	0.798	0.007	0.005	0	0	0	0	0	0	0.100233333	N/A	70.5(485)	71.91(494.55)	N/A	60.3(416)	N/A	38
293-47-7A	1301192461	0.057	0.007	0.798	0.008	0.007	0	0	0	0	0	0	0.097133333	N/A	69.8(481)	71.19(489.60)	N/A	59.4(410)	N/A	35
293-48-12	1302273880	0.058	0.016	0.765	0.007	0.003	0	0	0	0	0	0	0.091783333	N/A	65.3(450)	66.60(458.03)	N/A	55(379)	N/A	26
293-5-12	1301192461	0.057	0.007	0.798	0.008	0.007	0	0	0	0	0	0	0.097133333	N/A	69.8(481)	71.19(489.60)	N/A	59.4(410)	N/A	35
293-5-13	1301192461	0.057	0.007	0.798	0.008	0.007	0	0	0	0	0	0	0.097133333	N/A	69.8(481)	71.19(489.60)	N/A	59.4(410)	N/A	35
293-68-17	1301192450	0.055	0.012	0.775	0.009	0.004	0	0	0	0	0	0	0.09415	N/A	70.4(485)	71.80(493.79)	N/A	59.2(408)	N/A	32
293-78-11	1305200890	0.122	0.0128	0.538	0.012	0.019	0.002	0	0.017	0.022	0.017	0.004	0.152026667	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-78-9	1305200890	0.122	0.0128	0.538	0.012	0.019	0.002	0	0.017	0.022	0.017	0.004	0.152026667	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-79-22	1305200890	0.122	0.0128	0.538	0.012	0.019	0.002	0	0.017	0.022	0.017	0.004	0.152026667	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-80-10	1305200890	0.122	0.0128	0.538	0.012	0.019	0.002	0	0.017	0.022	0.017	0.004	0.152026667	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-80-2	1305200890	0.122	0.0128	0.538	0.012	0.019	0.002	0	0.017	0.022	0.017	0.004	0.152026667	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-80-3	1305200890	0.122	0.0128	0.538	0.012	0.019	0.002	0	0.017	0.022	0.017	0.004	0.152026667	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-80-4	1305200890	0.122	0.0128	0.538	0.012	0.019	0.002	0	0.017	0.022	0.017	0.004	0.152026667	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-80-5	1305200890	0.122	0.0128	0.538	0.012	0.019	0.002	0	0.017	0.022	0.017	0.004	0.152026667	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-80-6	1305200890	0.122	0.0128	0.538	0.012	0.019	0.002	0	0.017	0.022	0.017	0.004	0.152026667	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-80-9	1305200890	0.122	0.0128	0.538	0.012	0.019	0.002	0	0.017	0.022	0.017	0.004	0.152026667	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-81-10	1305200870	0.123	0.0077	0.551	0.012	0.019	0.002	0	0.016	0.025	0.021	0.005	0.15374	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-81-9	1305200870	0.123	0.0077	0.551	0.012	0.019	0.002	0	0.016	0.025	0.021	0.005	0.15374	55.46(382.41)	N/A	N/A	45.96(316.90)	N/A	35	N/A
293-82-10	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-11	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-12	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-13	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-14	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-15	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-16	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-17	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-18	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-20	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-3	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-4	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-5	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-6	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-7	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-8	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-82-9	263742011	0.191	0.151	0.718	0.009	0.016	0	0	0	0	0	0	0.231933333	73.33(504.31)	N/A	N/A	49.87(342.97)	N/A	28	N/A
293-83-11	233364	0.158	0.1087	0.823	0.017	0.006	0	0	0.022	0.013	0.014	0.005	0.20509	74.16(510.02)	N/A	N/A	55.72(383.20)	N/A	38	N/A
293-83-16	233364	0.158	0.1087	0.823	0.017	0.006	0	0	0.022	0.013	0.014	0.005	0.20509	74.16(510.02)	N/A	N/A	55.72(383.20)	N/A	38	N/A
293-83-2	233364	0.158	0.1087	0.823	0.017	0.006	0	0	0.022	0.013	0.014	0.005	0.20509	74.16(510.02)	N/A	N/A	55.72(383.20)	N/A	38	N/A
293-83-3	233364	0.158	0.1087	0.823	0.017	0.006	0	0	0.022	0.013	0.014	0.005	0.20509	74.16(510.02)	N/A	N/A	55.72(383.20)	N/A	38	N/A
293-83-4	233364	0.158	0.1087	0.823	0.017	0.006	0	0	0.022	0.013	0.014	0.005	0.20509	74.16(510.02)	N/A	N/A	55.72(383.20)	N/A	38	N/A



REPORTE DE CALIDAD DE TUBERIA (Quality Report)

Cod: FPD-PR-01-06

SISTEMA DE GESTION DE LA CALIDAD

Edición : 0

Revisión: 4

Fecha de Rev: 15 Junio 2013

293-99-15	431650	0.168	0.1245	0.849	0.011	0.005	0	0	0.02	0.025	0.022	0.007	0.217683333	71.88(494.34)	N/A	N/A	53.82(370.14)	N/A	38	N/A
293-99-2	431650	0.168	0.1245	0.849	0.011	0.005	0	0	0.02	0.025	0.022	0.007	0.217683333	71.88(494.34)	N/A	N/A	53.82(370.14)	N/A	38	N/A
293-99-3	431650	0.168	0.1245	0.849	0.011	0.005	0	0	0.02	0.025	0.022	0.007	0.217683333	71.88(494.34)	N/A	N/A	53.82(370.14)	N/A	38	N/A
293-99-4	431650	0.168	0.1245	0.849	0.011	0.005	0	0	0.02	0.025	0.022	0.007	0.217683333	71.88(494.34)	N/A	N/A	53.82(370.14)	N/A	38	N/A
293-99-5	431650	0.168	0.1245	0.849	0.011	0.005	0	0	0.02	0.025	0.022	0.007	0.217683333	71.88(494.34)	N/A	N/A	53.82(370.14)	N/A	38	N/A
293-99-6	431650	0.168	0.1245	0.849	0.011	0.005	0	0	0.02	0.025	0.022	0.007	0.217683333	71.88(494.34)	N/A	N/A	53.82(370.14)	N/A	38	N/A
293-99-7	431650	0.168	0.1245	0.849	0.011	0.005	0	0	0.02	0.025	0.022	0.007	0.217683333	71.88(494.34)	N/A	N/A	53.82(370.14)	N/A	38	N/A
293-99-8	431650	0.168	0.1245	0.849	0.011	0.005	0	0	0.02	0.025	0.022	0.007	0.217683333	71.88(494.34)	N/A	N/A	53.82(370.14)	N/A	38	N/A
293-99-9	431650	0.168	0.1245	0.849	0.011	0.005	0	0	0.02	0.025	0.022	0.007	0.217683333	71.88(494.34)	N/A	N/A	53.82(370.14)	N/A	38	N/A


**Prueba Hidros. (PSI)
(Hydrostatic Test).**

**Tratamiento Térmico
(Heat Treatment).**

Pruebas de Laboratorio Propiedades Mecánicas(Mechanical test Results)

Presión (Pressure).	Duración (Time).	Tipo (Type).	T°C mín. (Temp).	Metalografía	Método de Inspección No Destructiva (Non destructive Test Method).		Indicadores de Referencia (Reference Indicator)	Resultado de Macrografía (Macrographic test Result)	Prueba de Aplastamiento (Flattening Test)	Resultado de Prueba de Impacto (Charpy Test) Metal Base (Base Metal). Prom(Average).	Temperatura de Prueba de Impacto (Charpy Test Temperature).	Doblez Guiado (Bending Test) (QW-160)
					N/A	N/A						
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Este certificado ampara los numeros de serie de los tubos manifestados, los cuales fueron fabricados, inspeccionados y aceptados de acuerdo a los requerimientos de las especificacion arriba mencionada; FORZA STEEL no garantiza el producto que sea utilizado Inapropiadamente


 Ing. Leticia Botello Elizondo
 lbotello@forzasteel.com
 Aseguramiento de Calidad (Quality Assurance Chief)
 FORZASTEEL S.A. DE C.V.
 Carretera Salinas Victoria N.L. C.P. 65500