



MAHARASHTRA SEAMLESS LIMITED
WORKS (MILL) TEST CERTIFICATE
 EN:10204:3.1

QCF.20A

Tc No : MSL-7/QC/ 0136B/2018 Customer : TOYOTA TSUSHO AMERICA, INC
 Date : 23-APR-18
 Specification : ASTM/ASME A/SA 106 B(2015), API 5L GR.B/X-42
 (PSL-1) (2012), CSA Z245.1 GR.290 CAT-I(2014)
 Process/Product: HOT FINISH SEAMLESS Carbon Steel Pipes P.O. No : CI-18-140 Dt. 22-JAN-18
 W.O. No : 6170053

DESCRIPTION								Hydro Test Pressure at 10 Sec	Bend Test	Flattening Test	Flaring Test	Drift Expn. Test	Crushing Test
Sl NO	Material/Item Code	S I Z E (Inch)	Length Range (Feet/Mtr)	Heat No.	No Of PCS	Length (Feet/Mtr)	End Finish						
1		4 1/2 X 0.337	38-39	A8894			BEVEL	3000 PSI	NA	OK	NA	NA	NA

PHYSICAL PROPERTIES						CHEMICAL COMPOSITION (%)																		
Sl No	Heat No	YST (PSi)	UTS (PSi)	El (%)	Hardness HRB	Impact Test Charpy v-notch	LA/PA	C	Mn	Si	P	S	Cr	Mo	Ni	V	Cu	Al	Ti	Nb	CE			
G.L. = 2*, G.W.1 - L at room temp																								
Required (Max)	71800	110200		92				.26	1.06	.5	.03	.01	.4	.15	.4	.08	.4		.11	.11	.4			
Required (Min)	42100	60200	30						.29	.1														
1	A8894	53156	72876	38.00	74,76,	--	LA	.170	1.020	.260	.018	.004	.012	.001	.006	.001	.006	.028	.002	.000	.344			
							PA	.165	.974	.227	.014	.005	.010	.002	.008	.002	.006	.029	.002	.000	.331			
							PA	.160	.972	.227	.014	.005	.010	.002	.008	.002	.006	.030	.002	.000	.326			

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Dimensions : Outside diameter, thickness, weight, length conforms to above specification.
 Coating : All Pipes are coated with rust preventive from outside surface only.
 N.D.T. : Not Applicable
 Heat Treatment : Not applicable
 Raw material : Fully killed
 Marking/Stencilling : MSL API SPEC 5L 0.135.1 (API LOGO) W/Y ASTM A 106 GR.B/ASME SA 106 GR.B/A 530/API 5L GR.B/X-42 PSL-1 CSA Z245.1 GR 290 CAT-I SIZE-NPS 4 OD 4.500 INCH X WT 0.337 INCH X LENGTH (38.00-39.00 IN FEET) NPS HEAT NO..3000 PSI+WEIGHT-15.00 PPF+MADE IN INDIA+
 Remarks : Material conforms to NACE MR-0175/ISO15156, NACE MR-0103; Pipes are according to ANSI B36.10; Material is free from mercury contamination; Mfg. Process BOP/BAF; Fine Grained & Vacuum Degassed; Normalized rolled with Temp. range of 880-940 Deg.C & cycle time 25-35 min.; Material comply with A530/A530M Specification; Ca = 0.0015% & B = 0.0003%; Raw Material : JSPL (Indian Origin).

CERTIFY THAT THE MATERIALS CONFORMS TO ABOVE SPECIFICATION. FOR MAHARASHTRA SEAMLESS LIMITED
 R.K. SRIVASTAVA Asst. ENGINEER

Warning: Modification or unauthorized use of this certification is strictly prohibited. Violation calls for criminal prosecution. For authenticity verification, you can contact us at : mltc@mahaseam.com
 W.&R.O: Pipensgar, W-12, Suketi, N.E-17, B.K.C. Road, Dist. Raigad, Maharashtra-402126 Phone: 02154238511, 222010 Fax: 238513 Rev.No:8, 11.12.2017



Tuboscope Vetco (D) GmbH
 Vendor Services
 REVIEWED INSPECTOR P. Mahadule
 APPROVED SIGNATURE
 WITNESSED DATE 28/04/2018