



**MAHARASHTRA SEAMLESS LIMITED**  
**WORKS (MILL) TEST CERTIFICATE**  
 HW10204.3.1

QCF.20A

Page 1 of 1

Tc No : NSL-14/QC/ 2316/2017 Customer : TOYOTA TSUSHO AMERICA, INC  
 Date : 15-FEB-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-17-631 Dt. 19-SEP-17  
 W.O. No : 6170024

**DESCRIPTION**

Sl NO	Material/Item Code	S I Z E (Inch)	Length Range (Feet/Mtr)	Heat No.	No Of PCS	Length (Feet/Mtr)	End Finish	Hydro Test Pressure at 10 Sec	Bend Test	Flattening Test	Flaring Test	Drift Test	Crushing Test
1		8.625 X 0.500	38-39	A8664		1011.15	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", O.W.I 1/2" - L at room temp																						
Required (Max)	71800	110200		99				.26	1.06	.5	.025	.01	.4	.15	.4	.08	.4		.11	.11	.4	
Required (Min)	42100	60200	30						.29	.1												
A8664	48168	73196	42.20	77 - 78			LA	.162	1.020	.260	.011	.002	.055	.007	.016	.002	.013	.026	.003	.001	.347	
							PA	.163	1.045	.244	.009	.006	.055	.008	.018	.002	.010	.025	.003	.000	.352	
							PA	.165	1.038	.245	.009	.006	.054	.008	.017	.002	.011	.025	.003	.000	.353	

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 : MSHA MSL API SPEC 5L 0135.1 (API LOGO) M/Y ASTM A 106 GR.B/ASME SA 106 GR.B/API 5L GR.B/X42 PSL-1, CSA Z245.1 GR 290 CAT-I SS SIZE- NPS 8 +OD 8.625 INCH X W.T. 0.50 INCH X LENGTH (IN FEET) ENLS HEAT NO. .... 3000 PSI + 43.43 PPF + MADE IN INDIA + PPF



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/EAF; Fine Grained & Vacuum Degassed. Normalised rolled with Temp. 880-940 Deg.C & cycle time 25-35 minutes. Material comply with A530/A530M Spec. For A8664 Ca value= 0.0012% & B=0.0002%. Raw Material : JSW (Indian Origin).

CERTIFY THAT THE ABOVE CONFORMS TO ABOVE SPECIFICATION.

FOR MAHARASHTRA SEAMLESS LIMITED  
 Ramesh Jain - Sr. Manager

Warning: Modification or interchange of this certification is strictly prohibited. Violation calls for criminal prosecution. For authenticity verification, you can contact us at <mailto:info@mahaseam.com>

W.A.R.O: Pipenagar, Vashi, N.H. 48, G. Road, Dist. Raigad, Maharashtra-402126 Phone: 0219423811, 232010 Fax: 230513 Rev.No: 8, 11, 12, 2017



Tuboscope Verco (D) GmbH  
 Vendor Services  
 REVIEWED  INSPECTOR  
 APPROVED  SIGNATURE  
 WITNESSED  DATE

*P. Mahadule*  
 16/02/18