



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

QCF 20A

Customer :
 P.O.No : 42456 Dtd. 04-03-2022
 OC/Loading slip no. : 66210080 (Item No. 04)
 Specification : ASTM A106 GR.B / API 5L GR.B / X42 PSL-1
 Process/Type of Pipe : Hot Finished seamless carbon steel pipes

OD X WT : 42.20 mm X 3.56 mm
 Length Range : 20 - 20 Feet
 Total Length : 23080 Feet (1154 Pcs)
 Material Code : -----

Test Certificate No.: MSL-6/QC/0001Q/2022
 Date: 24 July 2022

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A) CHEMICAL COMPOSITION (%) - Reference standard ASTM A-751 & ASTM E-415																											
SI No	Heat No	Test Unit	Analysis	C	Mn	Si	P	S	Cr	Mo	Ni	Cu	V	Nb	Ti	Nb+V	Nb+V+Ti	B	Ca	Al	N	Mn/C	Cu+Ni	CE Pcm	CE IIW	B) Special / supplementary Reqs.	
Req.	Min.	%		0.260	1.060	0.500	0.030	0.010	0.400	0.150	0.400	0.400	0.080	0.110	0.110			0.001				5.833	0.011		0.358		
	Max.	%		0.180	1.050	0.240	0.011	0.005	0.010	0.0000	0.006	0.005	0.0010	0.0006	0.0020	0.0016	0.0036	0.0003		0.024		5.833	0.011		0.358		
1	AB272		H P1 P2	0.180	1.040	0.240	0.010	0.006	0.011	0.0010	0.007	0.006	0.0008	0.0004	0.0021	0.0012	0.0033	0.0002		0.025		5.833	0.013		0.367		
				0.180	1.060	0.230	0.011	0.004	0.010	0.0010	0.005	0.004	0.0011	0.0005	0.0022	0.0016	0.0038	0.0003		0.023		5.889	0.009		0.359		
C) MECHANICAL PROPERTIES																											
SI No	Heat No.	Test Unit	Quantity		Name of the Steel Maker and Address/Supplier Heat No.	Reference standard ASTM 370 & E-8				Reference standard ASTM E-23								Reference standard ASTM E-18									
			Pcs	Feet		Tensile Testing (Loc: Pipe Body)				CVN Impact Test (Pipe Body)								Through Wall Hardness (Pipe Body)									
						Yield	UTS	Yield/UTS Ratio	Elongation	Absorbed Energy (J)				% Shear Area				Hardness (HRB)									
			G.L.=50 mm Nom. Width= 19.05 mm				Temperature °C:				Transverse Direction																
Req.	Min.	Max.				290	415		30	1	2	3	Avg	1	2	3	Avg	1	2	3	4	Avg	1	2	3	4	Avg
1	AB272		1154	23080	J SPL, Chhattisgarh/ 2118862		491.83	558.60	0.88	32.54																	
							497.62	563.24	0.88	32.20																	
							490.62	556.88	0.88	32.66																	
Raw Material		Fully killed & Fine Grain Practice				Dimension	Good		NDE Method	Ultrasonic Testing - GOOD								End Area Inspection	OK								
Steel Route		EAF-LRF-VD-CCM				Weight	Good		Location & Orientation	Longitudinal & Transverse Notch at OD				Hydro Test Pressure	2970 Psi												
Hot Rolling Temp. °C		880-940				End Finish	SQUARE CUT		Type & Size of Ref.Indicator	10% Notch X 50mm Length X 1.0mm Width				Holding Time	E: Sec.												
Heat Treatment		NA				Straightness	OK		Residual Magnetism	10 Gauss Max				End Protection	Plastic end cap												
Delivery Condition		R				Visual	OK		Field Weldability	NA				External Coating	Black Varnished												
Norm./Temp.(°C)		NA				Bend Test	OK		Flattening Test	NA				Flaring Test	NA												
HIC		NA				SSC	NA		Micro Structure/Grain Size	Reveals fine Ferrite and pearlite /ASTM No. 7-8				CTOD	NA												
Inclusion Rating		NA				Hot Straight. Temp.°C	NA		Colour Coding	NA																	
D) Marking/Stenciling :		MAHA ((M) MSL API 5L X-42 PSL-1 / ASTM A106 GR.B / NACE MR0175/ MR0103 (% S HARDNESS CONTROLLED) BE SMLS SRL OD 1.660 INCH X WT 0.140 INCH HFS HEATNO.... + 2970 PSI + LENGTH...IN FEET + MADE IN INDIA + WEIGHT - 2.27 LB/FT + PO/SHIPPING MARK : "PO # 25.436" + B.NO...																									
E) Remarks :		1) Mail Confirms to API 5L GR.B PSL-1 / X42 (EDN. 2018)/ ASTM/ASME A106 B (EDN. 2019a)/ SA106 B (EDN. 2021). 2) "Country of melt and pour : INDIA".																									

Legends : T-Transverse, L-Longitudinal, YST-Yield Strength, UTS-Ultimate Tensile Strength, EL-Elongation, GL-Gauge Length, H-Heat, P1-Product 1, P2-Product 2, R-As Rolled, Q-Quenched & Tempered, N-Normalised, N&T-Normalised & Tempered, PE-Plain-end, BC-Buttress Thread Casing, LC-Long Round Thread Casing, SC-Short Round Thread Casing, NU-Non-upset tubing, EU-External Upset tubing, NA- Not Applicable

The material has been manufactured, sampled, tested and inspected and has been found conforming to the specification and PO

FOR MAHARASHTRA SEAMLESS LTD
 DEBTANU PAL - Asst. Engineer

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