





Document Ref.Code: F02-JP-QA-20 Revision No: 4 Effective Date: 29-Apr-2018		MTC No: JC-21-0450 MTC Date: 26-Dec-2021		Page: 1/1		MILL TEST CERTIFICATE MTC Type: EN 10204 - 3.1										شركة الجبيل لخدمات الطاقة (جسكو) JUBAIL ENERGY SERVICES CO. (JESCO) Tareeq 263, South of Tareeq 150, P.O. Box 10997 Jubail Industrial City, Eastern Province, 31961 Saudi Arabia																				
P.O. Number: 288415		Line Item Number: 05		Internal Order: C0001221-05		Technical File: C-1221.05_01		Packing list: 2112262210				Product: SEAMLESS LINE PIPE		Grade: BR/X42R/B/B		End Type: PLAIN END BEVELED		Dimensions: 12" XS (12.750" x 0.500" 323.8 x 12.70 mm)				Length [mm]: Min: 11580, Max: 12800		Quantity: PCS: 126		Total length [FT]: 5206.08		Total weight [MT]: 159.399								
Product Description: SEAMLESS LINE PIPE, API 5L PSL2 ASTM/ASME A/SA 53 ASTM/ASME A/SA 106 NACE MR 0175/ISO 15156 NACE MR0103, GRADE BR/X42R/B/B, AS ROLLED, SUITABLE FOR INTERNAL AND EXTERNAL COATING, PLAIN END BEVELED, SURFACE PROTECTED WITH STANDARD MILL VARNISH, END PROTECTOR, PACKED LOOSE IN LAYERS WITH WOOD SEPARATORS																																				
Standard: API 5L = Ed 46, Apr.2018; ASTM A 53 = 2020; ASTM A 106 = 2019a; ASME SA 53 / SA 106 = ASME BPVC-III-2019; NACE MR0175/ISO 15156 = 2015; NACE MR0103 = 2015																																				
STEEL IS FULLY KILLED WAS PRODUCED BY ELECTRIC ARC FURNACES TO A FINE GRAIN PRACTICE														Name and location of steelmaking facility: JINDAL SHADEED IRON & STEEL LLC, Sultanate of Oman																						
TEST: CHEMICAL COMPOSITION acc. to ASTM A751 method														TENSILE TEST acc. to ASTM A 370 method																						
Heat	Sample	Pcs.	C [%]	Si [%]	Mn* [%]	P [%]	S [%]	Cr [%]	Ni [%]	Mo [%]	Al [%]	Cu [%]	Ti [%]	Nb [%]	V [%]	B [%]	CE _{FW} [%]	CE _{PCM} [%]	Nb+V [%]	Cu+Ni+Cr+Mo+V [%]	Temp.	T/L	Type	Specimen Dim. [mm]		Sec. [mm ²]	Rt0.5 [PSI]		Rm [PSI]		Elongation [%] (Cat: 50.8 mm)					
																								Width	Thick		min:	max:	min:	max:	min:	max:				
S0006184	2000107064	126	0.24	0.10-0.40	0.29-1.06	0.025	0.010	0.30	0.30	0.15		0.40	0.04	0.05	0.06	0.0010	0.43	0.25	0.06	1.00	STD															
	2000107064-S		0.17	0.26	1.05	0.012	0.002	0.014	0.006	0.001	0.026	0.007	0.002	0.001	0.005	0.0003	0.35		0.006	0.033	HEAT	RT	L	Rec	37.70	12.76	481.05	47 715	71 100	50.05						
	2000107065		0.16	0.28	1.03	0.013	0.002	0.013	0.003	0.001	0.024	0.007	0.002	0.001	0.0002	0.34		0.003	0.025	PRODUCT	RT	L	Rec	38.20	13.05	498.51	47 482	69 377	49.92							
RT= Room Temperature; L= Longitudinal; T= Transverse; Rt=Yield Strength; Rm=Tensile Strength; Rec=Rectangular																																				
TEST: IMPACT TEST acc. to ASTM A 370 method														HARDNESS TEST acc. to ASTM E92 method																						
Heat	Sample	T/L	Size [mm]	Temp. *F	IMPACT TEST [ft-lb]	Single				Avg.	Type	Location	1	2	3	4	Max	248	REMARKS																	
						1	2	3	Avg.											Max	Average															
S0006184	2000107064	T	10 x 10	32		106.7	117.6	106.7	110.3	HV10	Surface	145	139	143	144	143																				
	2000107064-S									HV10	Surface	134	136	136	139	136																				
<p>FOLLOWING CONTROLS/TESTS HAVE BEEN SATISFACTORILY PERFORMED:</p> <ul style="list-style-type: none"> - Hot Rolled seamless line pipes -As Rolled - Hydrostatic Test at pressure 193 Bar (2810 PSI) for minimum 5 sec; - Visual Inspection and Dimensional Control; - Flux Leakage Examination acc. to ASTM E570 for detection of External Longitudinal/Transversal imperfections with rectangular notch of 5% WT, 50 mm L , 1 mm W - Ultrasonic Examination acc. to ASTM E213 for detection of External Longitudinal/Transversal imperfections with rectangular notch of 5% WT, 50 mm L , 1 mm W - Ultrasonic Examination acc. to ASTM E213 for detection of Internal Longitudinal/Transversal imperfections with rectangular notch of 10% WT, 50 mm L , 1 mm W - Flattening test - acc. to ASTM A530 - PASSED - Wet Fluorescent Magnetical Particle Inspection on both End Area, acc. to ASTM E709 <p>REMARKS</p> <ul style="list-style-type: none"> - The material was not subjected to any weld repair. - The material is free of mercury contamination and/or addition. - The material is free of radioactive contamination (<100 becquerels/gram). <p>*For each reduction of 0.01% below the specified maximum for carbon, an increase of 0.05% above the specified maximum for manganese is permissible, up to a maximum of 1.65%</p>																																				
<p>PRODUCT MARKING: By stencil: JESCO API Spec 5L-0724 API MONOGRAM MO-YR ASTM/ASME A/SA 53 ASTM/ASME A/SA 106 NACE MR 0175 ISO 15156 NACE MR0103 12.750" 0.500" BR/X42R/B/B PSL2 SMLS TEST PRESSURE:2810 PSI/INDE PIPE NO##### LENGTH ### (ft) WEIGHT #### (lb) HEAT NO ##### PO: 288415 TF C-1221.05 MADE IN SAUDI ARABIA</p>																																				
CONFIRMATION -We hereby certify that the product been described has been manufactured and tested in accordance with above standards and specifications and satisfies the requirements.														QUALITY ASSURANCE MANAGER																						
QUALITY ANALYSIS & CERTIFICATION														APPROVAL STAMP:																						
Prepared by: Marin Talpos																																				
Signature: 														Approved by: Gamal Mohammed Elkholy																						
Signature: 														Signature: 