



WORKS / MILL TEST CERTIFICATE

F / QTY / 23 R 00

T.C.NO: JSAW / Q / XP2402000246 / A
 P.O.NO: 26.092
 S.O.NO: 4111005986-20
 INV.NO: XP2402000246

DATE: 11.07.2024
 DATE: 15.03.2024
 DATE: 21.03.2024
 DATE: 11.07.2024

CUSTOMER

PRODUCT : COLD FINISHED & NORMALIZED CARBON STEEL SEAMLESS PIPES
 PIPE SPECIFICATION : API 5L GR B / X42 PSL 1, 46th Edition/ASIM A 106 GR B-19a/ASME SA 106 GR B. (ASME SEC II PART A EDN-2023)

PIPE DIMENSIONS		LENGTH (FEET)	END CONDITIONS	STRAIGHTNESS	HEAT NO.	QUANTITY	
OD	WT					NOS.	FEET
1.900"	0.145"	20.00	Plain Ends	Satisfactory	3322747	80	1600.000
1 1/2 NPS	SCH STD						
TOTAL						80	1600.000

CHEMICAL COMPOSITION:

Heat No.	Analysis	% C	% Mn *	% Si	% S	% P	% Cr	% Ni	% Cu	% Mo	% V	% Nb	% Ti	% B	Nb + V	Nb + V + Ti	% CE
	Reqd.	0.28	0.29 - 1.06	0.10 Min.	0.030	0.030	0.40	0.40	0.40	0.15	0.08	-	-	0.001	0.06	0.15	-
	Max.				Max.	Max.	Max.	Max.	Max.	Max.	Max.			Max.	Max.	Max.	
3322747	Heat	0.17	1.11	0.28	0.005	0.012	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	0.36
	Product I	0.17	1.12	0.27	0.006	0.013	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	0.36
	Product II	0.18	1.13	0.28	0.006	0.014	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	0.37

* Mn 1.65 Max. as per Table 1 clause B of ASTM A 106

MECHANICAL TESTS:

Heat No.		LONGITUDINAL TENSILE TEST			HARDNESS TEST	OTHER TESTS				
		Y. S. (0.5% EUL)	U.T.S.	% E G.L = 60.00 mm		HYDROSTATIC TEST (100%)	90° BEND TEST			
	Reqd.	42100 PSI Min.	60190 PSI Min.	18.50% Min.	N. A.	2500 PSI for 5 Seconds Minimum	As Per Spec.			
3322747	Obtained	47280	71355	34	-	Satisfactory	Satisfactory			
		Mpa	Mpa							
		326	492							
		48730	71500	39				-	Satisfactory	Satisfactory
		Mpa	Mpa							
		336	493							
		46700	75416	28						
Mpa	Mpa									
322	520									

Remarks:

- Steel Making Process : EAF-IRF-VD-CCM. Fully Killed.
- Visual Inspection : Satisfactory
- Country of melt : India.
- Steel Supplier & Location : Jindal Steel and Power Limited, Raigarh - 496001, Chhattisgarh, India.
- Pipe manufacturer & Location : Jindal Saw Limited, Sinnar - 422113, Dist. : Nashik, Maharashtra, India.
- Marking on Pipes - JSAW API SPEC 5L / ASTM A 106 GR B / ASME SA 106 GR B 1.900" OD x 0.145" WT (1 1/2 NPS SCH STD) GR B / GR X42 PSL1 SMLS HYDRO 2500 PSI HEAT NO. 3322747 LENGTH 20 FEET 2.72 lb/ft CDS P.O. NO 26.092 MADE IN INDIA
- Heat Treatment : Normalize at 900°C

T.C. AS PER EN10204 - 3.1

We hereby certify that the material herein described has been manufactured, sampled, tested & inspected in accordance with above standard and specification & satisfy the requirements.

(Signature)
 Authorized Signatory
 S. S. TILK (SR.Executive-Q.A.)

