



JINDAL SAW LTD.

WORKS / MILL TEST CERTIFICATE

F / QTY / 23 A 00

T.C.NO: JSAW / Q / XP2402000255 / G
 P.O.NO: 24.092
 S.O.NO: 4111005986-140
 INV.NO: XP2402000255

DATE: 13.07.2024
 DATE: 15.03.2024
 DATE: 21.03.2024
 DATE: 13.07.2024

CUSTOMER

PRODUCT : NOT FINISHED CARBON STEEL SEAMLESS PIPES
 PIPE SPECIFICATION : API 5L GR B / X42 PSL 1, 44th Edition/ASTM A 106 GR B-19a/ASME SA 106 GR B. (ASME SEC II PART A EDN-2023)

PIPE DIMENSIONS		LENGTH (FEET)	END CONDITIONS	STRENGTH	HEAT NO.	QUANTITY	
OD	WT					NOS.	FEET
2.375"	0.218"	70.00	Beveled Ends	Satisfactory	3323207	21	420.000
2 NPS	SCH XS						
TOTAL						21	420.000

CHEMICAL COMPOSITION:

Heat No.	Analysis Reqd.	% C	% Mn *	% Si	% S	% P	% Cr	% Ni	% Cu	% Mo	% V	% Nb	% Ti	% B	Nb + V	Nb + Ti	% CE
		3323207	Heat	0.28 Max.	0.29 - 1.04	0.18 Min.	0.030 Max.	0.030 Max.	0.40 Max.	0.40 Max.	0.40 Max.	0.18 Max.	0.08 Max.	-	-	0.001 Max.	0.04 Max.
	Product I	0.17	1.11	0.28	0.008	0.017	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	0.37
	Product II	0.18	1.10	0.27	0.009	0.016	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	<0.01	0.34

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

MECHANICAL TESTS:

Heat No.	Analysis	LONGITUDINAL TENSILE TEST			OTHER TESTS		
		Y. S. (0.2% EA)	U.T.S.	% E G.L. = 80.00 mm	HARDNESS TEST	HYDROSTATIC TEST (100%)	90° BEND TEST
	Reqd.	43100 PSI Min.	60170 PSI Min.	31.80% Min.	N. A.	2500 PSI for 5 seconds Minimum	As Per Spec.
3323207	Obtained	52501 Mpa	74284 Mpa	31	-	Satisfactory	Satisfactory
		362	528				

Remarks:

- Steel Making Process : EAF-LRF-VD-CCM, Fully Killed.
- Visual Inspection : Satisfactory
- Country of mill : 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 2.375" OD x 0.218" WT | 2 NPS SCH XS | GR B / GR X42 PSL 1 SMLS HYDRO 2500 PSI HEAT NO. 3323207 LENGTH 20 FEET 5.02 lbs/ft HFS P.O. NO 24.092 MADE IN INDIA

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.)

