VOLZHSKY TRUBNY

"VOLZHSKY PIPE PLANT"
OJSC

404119, Volzhsky, Volgograd region, Russia

MILL TEST CERTIFICATE

MANUFACTURER:

VOLZHSKY PIPE PLANT OJSC
404131, VOLZHSKY
VOLGOGRAD REGION
RUSSIA

SPEC 1188/72/PO822053RJ. TMK 07-0658
DESCRIPTION OF GOODS:
CARBON STEEL SEAMLESS PIPES ACCORDING TO API 5L PSL2 (43RD EDITION/YEAR 2004)X42.B/ASTM A106/A 106M (2006 EDITION)GR.B/C/ASTM A53/A 53M (2006 EDITION)GR.B/C/ASME SA 106(2004 EDITION)/ASME SA53 (2004 EDITION). BEVELLED ENDS. HARDNESS TEST MAX. 22 HRC IS IN ACCORDANCE WITH NACE MR01-75.
16" x 1.031" (406.4 x 26.2 MM)

"VASS PIPE & STEEL CO., INC"
158 THIRD STREET
MINEOLA, NY 11501

CERTIFICATE № 146 DATE OF ISSUE 13.02.2008

SIZE	HEAT No / HEAT TREATMENT LOT No	LOT No	QUANTITY, PIPES	LENGTH, FEET	NET WEIGHT TONS	CHEMICAL COMPOSITION, % C x100	Si x100	Mn x100	P x1000	S x1000	Cr x100	Ni x100	Cu x100	Mo x100	Ti x100	Nb x100	MILL CONTROL PROT. No	ORIENTATION	TEST SPECIMEN	TENSILE TEST GL. 'C' YS PSI	TENSILE TEST GL. 'C' UTS PSI	EL. %	HARDNESS TEST HRC	IMPACT TEST ORIENTATION	IMPACT TEST NOTCH	IMPACT TEST SIZE	IMPACT TEST TEMP °C	IMPACT TEST VALUE FT-LB	IMPACT TEST FRACTURE %	HEAT TREATMENT	NDT	HYDROSTATIC TEST DURATION (SECONDS)	HYDROSTATIC TEST PRESSURE KG/CM2 (MPa)	NOTE
						*1	24 max	10 min	29 min 106 max	25 max	15 max	40 max	40 max	40 max	15 max	4 max		* 2	* 3	* 4	min 42000 max 65000	min 70000 max 110000	min 24.0	max 22.00	* 3	* 5	* 6	0	* 7	min 20.00	min 1.00	* 8	* 9 * (10)	min 5	8 " 211.14 (20.70)	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
GRADE B/C/ X42 16"x 1.031"(406.4 x 26.2 MM) API 5L PSL2 ASTM A106 / A106M / ASTM A53/A53M ASME SA-106 ASME SA-53	210096 11	3-0069	32	1275.92	96.545	H 18 P 19 P 19	26 27 27	44 43 42	11 11 11	6 5 6	6 5 5	15 15 15	24 23 23	2 2 2	0 0 0	0 0 0	2133 2133 0194	L		L	H	53463	73822	37.8	1.0	T	V	F	0	A E	87.2 85.6 88.8 87.3	85 85 85 85	Q&T	M & UT (12)	G	G	CARBON STEEL SEAMLESS PIPES ACCORDING TO API 5L (2004) ASTM A106(2006) ASTM A53(2006) ASME SA-106(2004) ASME SA-53(2004) LENGTH: MIN 80%=38-41 FT MAX 20%=35-38 FT MINIMUM HYDROSTATIC PRESSURE P= 3000 PSI HARDNESS TEST MAX.22 HRC IS IN ACCORDANCE WITH NACE MR0175.

DESCRIPTION OF TESTS	VISUAL AND DIMENSIONS	BEVELING INSPECTION	END'S PROTECTORS	NONDESTRUCTIVE INSPECTION	COATING	FLATTENING TEST	MARKING: STENCILING	STEEL MAKING PROCESS - ELECTRIC FURNACE
	G	G	G	G	G	G	G	

NOTES: G: GOOD
*1: H: HEAT ANALYSIS. P: PRODUCT ANALYSIS. C: CONTROL ANALYSIS. R: RECHECK ANALYSIS
*2: L: LOT TEST. H: HEAT CONTROL TEST. A: ADDITION TEST. R: RECHECK TEST
*3: L: LONGITUDINAL. T: TRANSVERSE
*4: STRIP G: 1/2 in. N: 1 in. K: 1 1/2 in. S: 12 mm. RING M: 1/2 in.
*5: V: 2mm V, U: 2mm U, B: 3mm U, C: 4mm U, S: 2mm U FASE NOTCH, F: 2mm V FASE NOTCH
*6: F: 10x10mm, ►: 10x7.5mm, 6: 10x6.7mm, 5: 10x5mm, 3: 10x3.3mm, 2: 10x2.5mm
*7: E - EACH VALUE, A - AVERAGE VALUE
*8: HEAT TREATMENT, Q&T: QUENCHED & TEMPERED
*9: M: WET FLUORESCENT MAGNETIC PARTICLE TEST, EMI: ELECTROMAGNETIC TEST,UT: ULTRASONIC TEST
UTB: PIPE BODY UT FOR LAMINATION, UTE: PIPE ENDS UT FOR LAMINATION
UTS: PIPE WALL THICKNESS UT
*10: 9 - NOTCH 5%, 12 - NOTCH 12.5%

TOTAL: QUANTITY OF PIPES 32 PCS NET WEIGHT 96.545 T LENGTH 1275.92 ft

WE CONFIRM THAT PIPES HAS NO CONTAMINATION BY MERCURY AND NO REPAIR BY WELDING HAS BEEN CARRIED OUT. MTC COMPLY WITH THE STANDARD EN 10204.3.1B.

MANAGER - INSPECTION
VOLZHSKY PIPE PLANT
DATE: 15.02.08

CHEMICAL
COMPOSITION, %

	V	B	Nb+V+Ti	Cu+Cr+Mo+Ni+V	CE(IIW)	CE(Pcm)
	x	x	x	x	x	x
	100	10000	100	100	100	100
	8		15	100	43	25
	max		max	max	max	max
IHI	0	4	0	47	30	-
IPI	0	3	0	45	30	-
IPI	0	3	0	45	30	-

Heat # 280096 ✓

WE CONFIRM THAT PIPES HAS NO CONTAMINATION BY MERCURY AND
NO REPAIR BY WELDING HAS BEEN CARRIED OUT. MTC COMPLY WITH THE STANDARD EN 10204.31B.

ОТК

MANAGER - INSPECTION
VOLZHSKY PIPE PLANT
DATE: 15.04.08