



UNITED STATES STEEL CORPORATION

TUBULAR PRODUCTS
CERTIFIED TEST REPORT

(IN ACCORDANCE WITH ISO 10474/EN10284/DIN55049 "type 3.1")

DATE: 01/14/14
TIME: 04:19:43
SERIAL NO: 10049186

MEL ORDER/TUB NO DR09318 01		SHIPPER'S NO. T48695		P.O. NUMBER 200361		VEHICLE ID PUJ4410 OH												
BOLD TO ADDRESS				MAIL TO ADDRESS														
VENDOR UNITED STATES STEEL CORP LORAIN TUBULAR OPERATIONS 2199 EAST 28TH ST. LORAIN, OH 44055																		
SPECIFICATION AND GRADE																		
PIPE CARBON SMLS STD PIPE API 5L-45TH EDITION DATED 12/1/12 PSL-2 GRADE B AND GRADE X42 R N OR Q ASTM A53-12 GRADE B ASTM A106-11 GRADE B/C SPECIAL OD TOLERANCE ASME SA53-2010 EDITION GRADE B ASME SA106-2010 EDITION GRADE B/C BLK RRG MILL COAT PER REV 30 DEG BEETING ALL THE APPLICABLE REQUIREMENTS OF NACE STANDARD MR-01-75 *ISO 15156-2 2009 ED AND MR-0103-2012 ED																		
MATERIAL COMD		QUENCH AND TEMPER		QTY 1B.000 (457.200)		WALL 0.938 (23.828)												
PRODUCT IDENTIFICATION	TENSILE TEST TYPE/OBSERVATION	TEST COND.	GAUGE WIDTH IN	YIELD	EXT K .50	TENSILE	WT	ELONG % (IN 2")	HARDNESS SCALE	MIN HYDR PSI	WALL THICK (IN)							
				MIN 42100		MIN 70000	MAX	MIN	MAX	MIN	MAX							
MA6134 E098QA	STRIP/L/B	QT	1.500	MAX 54500	.50	MAX 72800	0.75	30.0		2970	5							
MA6174 E097QA	STRIP/L/B	QT	1.500	MAX 58000	.50	MAX 75000	0.78	56.9		2970	5							
				** END OF DATA THIS SHEET **														
LEGEND:		1 - LONGITUDINAL U - UPSET		T - TRANSVERSE MH - NORMALIZED		QT - QUENCH & TEMPERED SR - STRESS RELIEVED		AR - AS ROLLED TR - THERMO-MECHANICAL ROLLED		B - BODY W - WELD								
PRODUCT IDENTIFICATION	TYPE	C	MN	P	S	SI	NI	CR	MO	AL	M	V	B	TI	CA	CO	C.E.*	
																		MAX
MA6134	HEAT	.14	1.05	.007	.002	.25	.13	.06	.07	.02	.025		.02	.0002	.002	.002		.35
MA6134	PROD	.13	1.06	.004	.001	.26	.12	.05	.07	.02	.013		.02	.0000	.001	.001		.34
MA6134	PROD	.13	1.07	.004	.001	.26	.12	.05	.07	.02	.012		.02	.0000	.001	.001		.34
MA6174	HEAT	.13	1.04	.009	.001	.26	.12	.07	.10	.02	.024		.03	.0002	.002	.002		.35
MA6174	PROD	.14	1.07	.008	.001	.27	.11	.06	.09	.02	.012		.02	.0000	.002	.001		.36
MA6174	PROD	.14	1.07	.009	.001	.27	.12	.06	.10	.02	.011		.02	.0001	.001	.001		.35
				** END OF DATA THIS SHEET **														
*C.E. IS BASED ON THE FOLLOWING EQUATION(S):								$C.E. = C + MN/6 + (CR + MO + V) / 5 + (NI + CU) / 15$										



UNITED STATES STEEL CORPORATION

TUBULAR PRODUCTS
 CERTIFIED TEST REPORT
 (IN ACCORDANCE WITH ISO 16474/EN18204/DIN5049 "Type 3.1")

DATE: 01/14/14
 TIME: 04:19:43
 SERIAL NO: L0049186

MILL ORDER/ITEM ID DRU9318 01		GRIPPER NO. T4869E		P.O. NUMBER 200361		O.D. 10.000 (457.200)		WALL 0.938 (23.825)		0012944										
MATERIAL COND: QUENCH AND TEMPER		PRODUCT IDENTIFICATION MA6134 E098QA MA6174 E097QA		FLAT OK OK	BEND	GRAIN SIZE	MIN COLLAPSE	DR	TEST LOC	TEMP	SIZE	CRACK/NOTCH/IMPACT TESTING	FT-LBS		% BREAK		Avg			
								DEG F				1	2	3	Avg	1	2	3	Avg	
								T	B	+ 32	3/4	QT	196	198	188	194	100	100	100	100
								T	B	+ 32	3/4	QT	206	200	206	204	100	100	100	100
								** END OF DATA THIS SHEET **												
LEND		L - LONGITUDINAL		T - TRANSVERSE		B - BODY		W - WELD		MAX. HEAT AFFECTED ZONE										
TEST / INSPECTION		YES		TESTED / INSPECTION INFORMATION								RESULTS / COMMENTS								
FULL LENGTH VISUAL		X																		
FULL LENGTH EMP		X		OD X ODPD L UT X 10.0% NOTCH																
FULL LENGTH MPI																				
FULL LENGTH UT		X		ID X ODDO L X UT 10.0% NOTCH																
END AREA INSPECTION (PLAIN END)		X		MPI X UT																
SPECIAL END AREA (SEA) SWP				MPI UT																
FULL LENGTH ORIF				DRIFT MANUREL SIZE:																
ADDITIONAL NOTES/COMMENTS																				
MELTED AND MANUFACTURED IN THE USA, NO REPAIRS BY WELDING, NO MERCURY COMPOUNDS ARE ADDED TO THE STEEL AND ALL MERCURY BEARING EQUIPMENT IS PROTECTED BY A DOUBLE BOUNDARY OF CONTAINMENT. MANUFACTURED IN AN ISO 9001 CERTIFIED FACILITY - CERTIFICATE #32022.																				

THIS IS TO CERTIFY THAT THE PRODUCT DESCRIBED HEREIN WAS MANUFACTURED, SAMPLED, TESTED AND/OR INSPECTED IN ACCORDANCE WITH THE SPECIFICATION AND FULFILLS THE REQUIREMENTS IN SUCH RESPECTS.

PREPARED BY THE OFFICE OF: BRAD KOURY - MANAGER, Q.A.

DATE 01/14/14



UNITED STATES STEEL CORPORATION

TUBULAR PRODUCTS
ADDITIONAL COMMENTS SHEET

DATE: 01/14/14
TIME: 04:19:44
PAGE: 1 OF 1

MILL ORDER ITEM NO DRO9318 01	SHIPPER NO.	P.O. NUMBER 200351	HEAT	SERIAL NUMBER: L0049186
SOLD TO ADDRESS		MAIL TO ADDRESS		VENDOR UNITED STATES STEEL CORP LORAIN TUBULAR OPERATIONS 2199 EAST 28TH ST. LORAIN, OK 44055
HEAT MA6134 - MELTED AT:NUCOR STEEL MEMPHIS, MEMPHIS, TN 38109 HEAT MA6174 - MELTED AT:NUCOR STEEL MEMPHIS, MEMPHIS, TN 38109 END OF DATA				