



UNITED STATES STEEL

TUBULAR PRODUCTS
CERTIFIED TEST REPORT
(IN ACCORDANCE WITH ISO 10474/EN10204/DIN50049 "type 3.1")

DATE: 07/26/08
TIME: 04:11:00
SERIAL NO: L0024385

Ln#: 2
SO#: S215021
Heat#: B47945
Date: 7/20/2010 To: AMERICAS DISPATCH Qty: 0
Part: 12750688X52S
From: American Piping PO#: 8573

MILL ORDER/ITEM NO DR41969 01		SHIPPER'S NO. R76897		P.O. NUMBER 4337		VEHICLE ID LT8084													
SOLD TO ADDRESS				MAIL TO ADDRESS				VENDOR USS TUBULAR PRODUCTS 2199 EAST 28TH ST. LORAIN, OH 44055											
SPECIFICATION AND GRADE PIPE CARBON SMLS LINE PIPE API 5L-43RD EDITION DATED 3/04 PSL-2 GRADE X52 /X42 ASTM A106-06A GRADE B/C ASME SA106-2004 EDITION GRADE B/C BLK REG MILL COAT PE SC MEETING ALL THE APPLICABLE REQUIREMENTS OF NACE STANDARD MR-01-75 *:2003																			
MATERIAL COND: QUENCH AND TEMPER				O.D.: 12.750 (323.850)		WALL: 0.668 (17.475)													
PRODUCT IDENTIFICATION	TENSILE TEST TYPE/ ORIENTATION	TEST COND.	GAUGE WIDTH IN	YIELD		EXT %	TENSILE		Y/T	ELONG % (IN 2")		HARDNESS SCALE: HRB		MIN HYDRO	DWELL (SEC)				
				MIN: 52000	MAX: 72000	.50	MIN: 70000	MAX: 110000	MIN:	MAX:	MIN: 30.0	MAX: 99.0	3000	5					
B47945 K977QD	STRIP/L/B	QT	1.500	67500	.50	87500	0.77	42.0	B 91.7	3000	5	** END OF DATA THIS SHEET **							
LEGEND:		L - LONGITUDINAL U - UPSET		T - TRANSVERSE NN - NORMALIZED		QT - QUENCH & TEMPERED SR - STRESS RELIEVED		AR - AS ROLLED		B - BODY		W - WELD							
PRODUCT IDENTIFICATION	TYPE	C	M	P	S	SI	CU	M	CR	MO	AL	N	V	B	Ti	CB	CO	CE*	
																			MAX
B47945	HEAT	.19	105	008	007	18	03	06	07	03	035								.43
B47945 K977QD	PROD	.19	104	010	007	17	03	06	07	03	031								.40
B47945 K977QD	PROD	.19	104	010	006	18	03	06	08	03	033								.40
** END OF DATA THIS SHEET **																			
*CE IS BASED ON THE FOLLOWING EQUATION(S): CE=C+ (MS/6) + (CR+MO+V) /5 + (NI+CU) /15																			

DECIMAL POSITIONS FOR ELEMENTS ARE INDICATED BY THE LEFT MARGIN, VERTICAL DOTTED LINE OR DECIMAL POINT.



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PO#: 8573

MILL ORDER/ITEM NO DR41969 01		SHIPPER'S NO. R76897		P.O. NUMBER 4337		0020623													
MATERIAL COND: QUENCH AND TEMPER				O.D. 12.750 (323.850)		WALL 0.688 (17.475)													
PRODUCT IDENTIFICATION B47945 X977QD	FLAT	BEND	GRAIN SIZE	MN COLLAPSE	DIR	TEST LOC.	TEMP	SIZE	TEST COND.	CHARPY V-NOTCH IMPACT TESTING FT-LBS				% SHEAR					
							DEG F			1	2	3	AVG	1	2	3	AVG		
** END OF DATA THIS SHEET **					T	B	+ 32	2/3	QT	64	68	80	70	70	80	100	83		
LEGEND L - LONGITUDINAL T - TRANSVERSE B - BODY W - WELD HAZ - HEAT AFFECTED ZONE																			
TEST / INSPECTION				YES		TESTING / INSPECTION INFORMATION												RESULTS / COMMENTS	
FULL LENGTH VISUAL				X															
FULL LENGTH EMI				X		OD		X		OD/ID		L		X		10.0% NOTCH			
FULL LENGTH MPI																			
FULL LENGTH UT				X		ID		X		OD/ID		L		X		10.0% NOTCH			
END AREA INSPECTION (PLAIN END)						MPI		UT											
SPECIAL END AREA (SEA) INSP						MPI		UT											
FULL LENGTH DRIFT						DRIFT MANDREL SIZE:													
ADDITIONAL NOTES/COMMENTS																			
MELTED AND MANUFACTURED IN THE USA. NO REPAIRS BY WELDING. NO MERCURY OR MERCURY COMPOUNDS ARE ADDED TO THE STEEL AND ALL MERCURY BEARING EQUIPMENT IS PROTECTED BY A DOUBLE BOUNDARY OF CONTAINMENT. THIS DUAL CERTIFIED PRODUCT TO A106 GRADE B AND API 5L X52 HAS HIGHER YIELD STRENGTH PROPERTIES THAN MATERIAL ORDERED AS ONLY A106 GRADE B																			

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: J. MAJTKZAK - MANAGER, Q.A.

DATE: 07/26/08