



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.:

Sample No.: P11079103

PO Number: 114688-00

PO Date: 08/15/11 JSW #: SAW1348

Date: 11/21/11

Diameter (In): 30

Wall (In): 0.500

Grade: B PSL1/X42M PSL2

Heat No: S14083

Comments: EN 10204 3.1 Meets "NACE MR0175" and "NACE MR0103" (Hardness Only)"

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL
ROLLED

INSPECTION CERTIFICATE: 3.1 B-PER ISO 10474: 1991.
100% Weld seam inspection by ultrasonic testing method;
Calibration standard: N5 notches inside and outside (Longitudinal and Transverse)

API 5L October 2008 44th Ed

END X-RAY: 8" (ASTM - B PENETRAMETER)

Customer
TEXAS PIPE
2330 HOLMES ROAD
HOUSTON, TEXAS 77051

Ship To
TEXAS PIPE
2330 HOLMES ROAD
HOUSTON, TEXAS 77051

Type	Chemical										Analysis									
	C	Mn	P	S	SI	Cu	NI	Cr	Mo	TI	Al	N	V	B	Nb	Ca	Zr	V +Nb +Ti	CE (0.43)	Pcm
Ladle	0.15	1.06	0.011	0.002	0.30	0.010	0.010	0.010	0.002	0.001	0.038	0.004	0.002	0.0000	0.002	0.0020	0.000	0.01	0.33	0.21
Prod1	0.15	1.11	0.011	0.002	0.28	0.010	0.010	0.020	0.000	0.005	0.036	0.000	0.002	0.0003	0.001	0.0020	0.000	0.01	0.34	0.22
Prod2	0.16	1.14	0.009	0.000	0.27	0.010	0.010	0.020	0.000	0.005	0.033	0.000	0.002	0.0003	0.000	0.0009	0.000	0.01	0.36	0.23

Mechanical Testing

Orientation	Cwidth (Inch)	Yield (PSI)	Tensile (PSI)	Elong (%)	Y/T Ratio
1T180	1.48	61400	77500	35	0.79
1W	1.47	0	79700	0	

Weld Tensile Fracture Location:
BASE METAL

Guided Bend
Orientation Root Face
2W OK OK

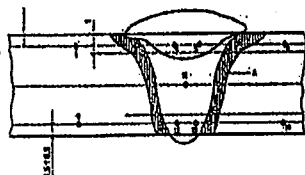
Hydrostatic Test

TEST PRESS. PSI
1370

HOLDING TIME (sec)
20

Hardness Tests

Orientation: 1W



1:163 7:168 13:181 19:179
2:169 8:173 14:171
3:172 9:168 15:169
4:182 10:173 16:160
5:181 11:173 17:168
6:171 12:183 18:181

MACRO OK

Form # ML-014
Rev: 2
Date: 07/05/11



JSW STEEL (USA) INC.
5200 E. McKinney Rd
Baytown, TX 77520
Phone: (281) 383-3300
Fax: (281) 303-0473

Metallurgical and Pipe Test Report

MTR No.:

Sample No.: P11079103

PO Number: 114688-00

PO Date: 08/15/11 JSW #: SAW1348

Date: 11/21/11

Diameter (in): 30

Wall (in): 0.500

Grade: B PSL1/X42M PSL2

Heat No: S14083

Comments: EN 10204 3.1 Meets "NACE MR0175" and "NACE MR0103" (Hardness Only)"

Pipe Manufactured in USA

SAWL MATERIAL
THERMO MECHANICAL
ROLLED

INSPECTION CERTIFICATE: 3.1 B PER ISO 10474: 1991.
100% Weld seam inspection by ultrasonic testing method;
Calibration standard: N5 notches inside and outside (Longitudinal
and Transverse)

API 5L October 2008 44th Ed

END X-RAY: 8" (ASTM - B PENETRAMEETER)

Charpy Impact Analysis

Orientation	Spec Size	Temp	Ft lb1	Ft lb2	Ft lb3	Ft lb avg	Shear1 (%)	Shear2 (%)	Shear3 (%)	Shear Avg (%)
3T90	10x10 mm.	32 F	112	110	120	114	95	95	95	95
3W	10x10 mm	32 F	68	78	75	74	0	0	0	0
3HAZ	10x10 mm	32 F	110	127	110	116	0	0	0	0

Pipes Certified For This HEAT

P11079162 P11079201 P11079316 T11119131 T11119148 T11119211 T11119296 T11119326 T11119334

The material has been manufactured, sampled, tested, and inspected in accordance with this spec (API5L) and has been found to meet the requirements.
We certify the above to be correct as contained in the records of the company.

Jude R Lemelle
QA ENGINEER

Form #	ML-014
Rev:	2
Date:	07/05/11