

Inspection Order No. : IN-TJ-5602-15198Upd.02
BOSS No. : 1331823
Page No. : 1 of 8
Date of issue: Sep.22, 2015

INSPECTION REPORT

(non-negotiable)

- **Description and Quantity of Commodity (As per PI declared):** Steel pipe seamless DN600 e=8mm ASTM A53 GR-B ,internal and external epoxy coating L=12m
48 pcs

- **Name & Address Of Buyer:** F*****

- **Name & Address Of Seller:** SHANXI SOLID INDUSTRIAL CO.LTD
Add: ROOM 1501,BUILDING B,DINGYUAN TIMES CENTER,YING ZENANJIE TAIYUAN,SHANXI,CHINA

- **Inspection Date & Place:** On Sep.21,2015, in Shanxi province, China;

- **PI No.:** SFC-1510 Date: Aug.18, 2015

- Nature Of Inspection:	Item	Comment
	Quantity check	Acceptable
	Packing check	Acceptable with note
	Marking check	Acceptable
	Dimension check	Acceptable with note
	Visual quality check	Acceptable with note
	Witness coating thickness check	Acceptable
	Documents review	Acceptable

- **Inspector:**  Gavin Li

- **Reviewed by** Anderson Liu Anderson Liu
Lisa Gao Lisa Gao

This is to report that we, SGS-CSTC Tianjin Branch at the request of [SHANXI SOLID INDUSTRIAL CO.LTD] conducted the following inspection:

Disclaimer

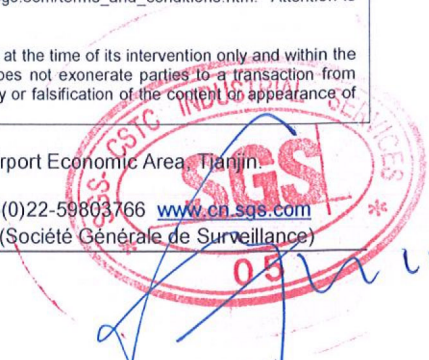
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[V: 00 Nov.2012]



During the inspection, total 8 pcs pipes were selected randomly by SGS inspector for marking check. Each pipe had a printing mark on surface at pipe's body. Details were as shown in below description and photos.

ASTM A53 GRB DN600X8MMX12M 15009823

Result: the marking on pipes was conformance to requirement of PI which provided by supplier , so the result was acceptable.

4. Dimension check:

- Sample size: [according to ANSI/ASQ Z1.4-2008 S-4, 5 pieces totally]
- Reference documents: [PI No.: SFC-1510 Date: Aug. 18, 2015]
[ASTM A53-12]

In order to traceability of inspection, SGS inspector made mark and signed on pipe surface, details as attached pictures. Wall thickness was measured randomly at 4 points by micrometer on circumference direction of each pipe's both ends, and measured randomly at 4 points by thickness gauge on each pipe's body. Outside diameter at ends was measured by caliper at 2 points cross direction at two side pipe ends. Circumference was firstly measured by tape in 2 positions on the body, and outside diameter on body was calculated from circumference divided by 3.14. Details were as following.

Unit: mm

Item	Description	Sample Size (pcs)		Outside Diameter at ends	Outside Diameter on body	Thickness at ends	Thickness on body	Length
1	DN600x8mmx12m	5	Req.	610(±6.1)	610(±6.1)	Min 7.0	Min 7.0	12000
			Act.	608.30-610.44	608.92-611.72	7.453-8.335	8.5-9.2	12005.2-12007.5

Note: the client accept the actual value after inspection.

Result: the result of Dimension check was acceptable with note.

5. Visual Quality Check:

- Sample size: [according to ANSI/ASQ Z1.4-2008 L-II 8 pieces totally]
- Reference documents: [PI No.: SFC-1510 Date: Aug. 18, 2015]

During the inspection, visual quality check was performed randomly by SGS inspector. Details as below:

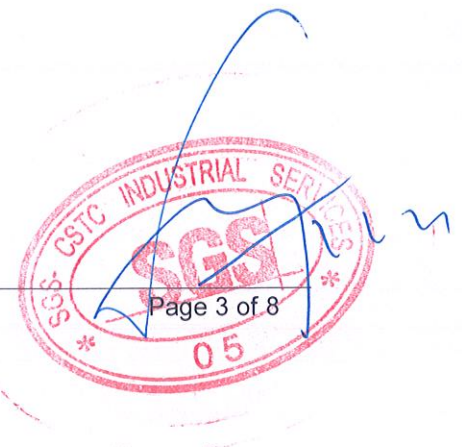
- a) Black coating was found on each pipe's outside surface, and white coating was found on each pipe's inside surface.
- b) Beveled end was found on each end side of each pipe.
- c) Blue cap was used to protect each end side.
- d) Slight coating slags were found on 2 pipes' outside surface near the end side.

Note: the client accept the actual value after inspection.

Result: the result of visual check was acceptable with note.

6. Witness coating thickness check:

- Sample size: [according to ANSI/ASQ Z1.4-2008 S-4, 5 pieces totally]



Reference documents: [PI No.: SFC-1510 Date: Aug.18, 2015]

During the inspection, coating thickness check was performed by manufacturer and witnessed by SGS inspector. 6 spots were selected for each pipe's external coating check, and 6 spots on inside surface near both ends were selected for each pipe's internal coating check. Details as below:

Unit: μm

Item	Description	Sample Size (pcs)		Internal coating	External coating
1	DN600x8mmx12m	5	Req.	≥ 150	≥ 150
			Act.	150-289	150-325

Result: The result of coating thickness check was conformance to requirement of PI, so the result was acceptable.

In accordance with Client's instructions, the Company's involvement has been limited to witnessing/observing a third party's intervention(s) at the third party's laboratory/test house or other facilities and installations used for the intervention(s). The Company's sole responsibility was to be present at the time of the third party's intervention(s) to forward the results, or confirm the occurrence, of the intervention(s). The Company is not responsible for the condition or calibration of apparatus, instruments and measuring devices used, the analysis methods applied the qualifications, actions or omissions of the third party's personnel or the analysis results.

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7. Documents review

The following documents were reviewed by SGS inspector. 2 pages of MTC (certificate No.: RC150323BH-17, date: 2015-9-18) was provided by SHANXI SOLID INDUSTRIAL CO.LTD for document review. Total meters, total pieces, total weight, hot rolling delivery condition, heat number, batch number, size, tensile test, flattening test, chemical composition hydro test, NDT test, surface quality and dimension were shown in the MTC. And the data in certificate showed that it was acceptable and according to ASTM A53-12.

Result: The result of document review was acceptable.

THIS REPORT ONLY REFLECTED OUR ACTUAL FINDINGS. THE INSPECTION WAS DONE TO THE BEST OF OUR KNOWLEDGE AND ABILITY AND WITH DUE CARE. THE FINDINGS ARE VALID AS FOR TIME AND PLACE OF INSPECTION.

Attachment: Photos during inspection





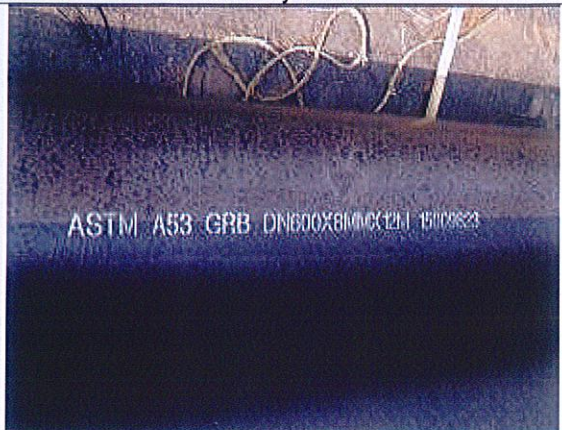
Quantity check



Quantity check



Packing check



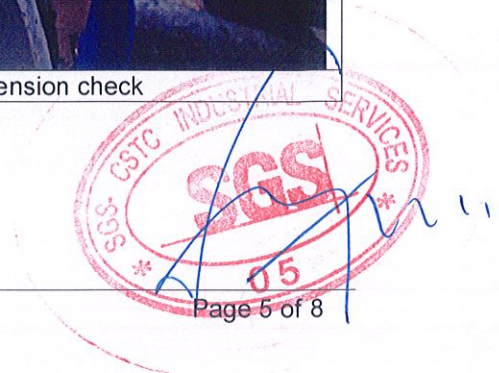
Marking check

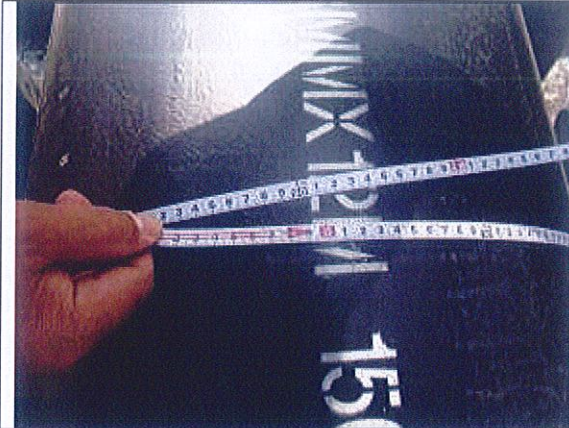


Dimension check



Dimension check

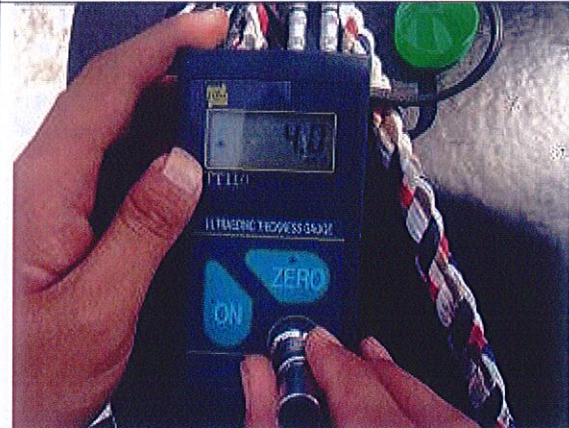




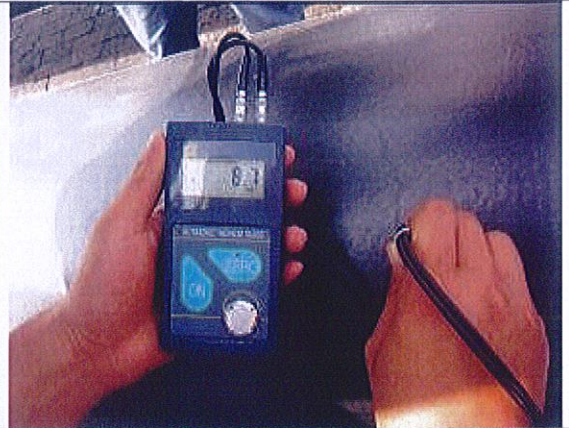
Dimension check



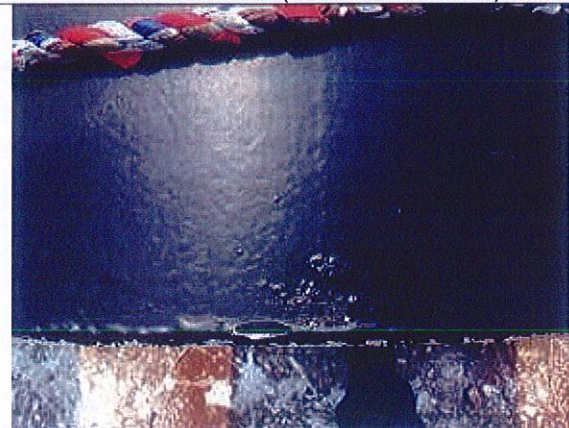
Dimension check



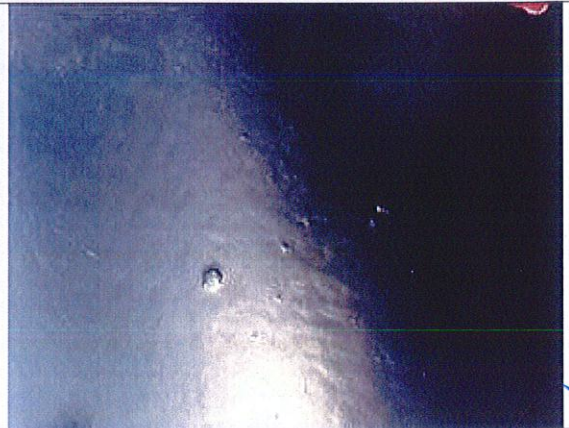
Dimension check (Calibration on site)



Dimension check

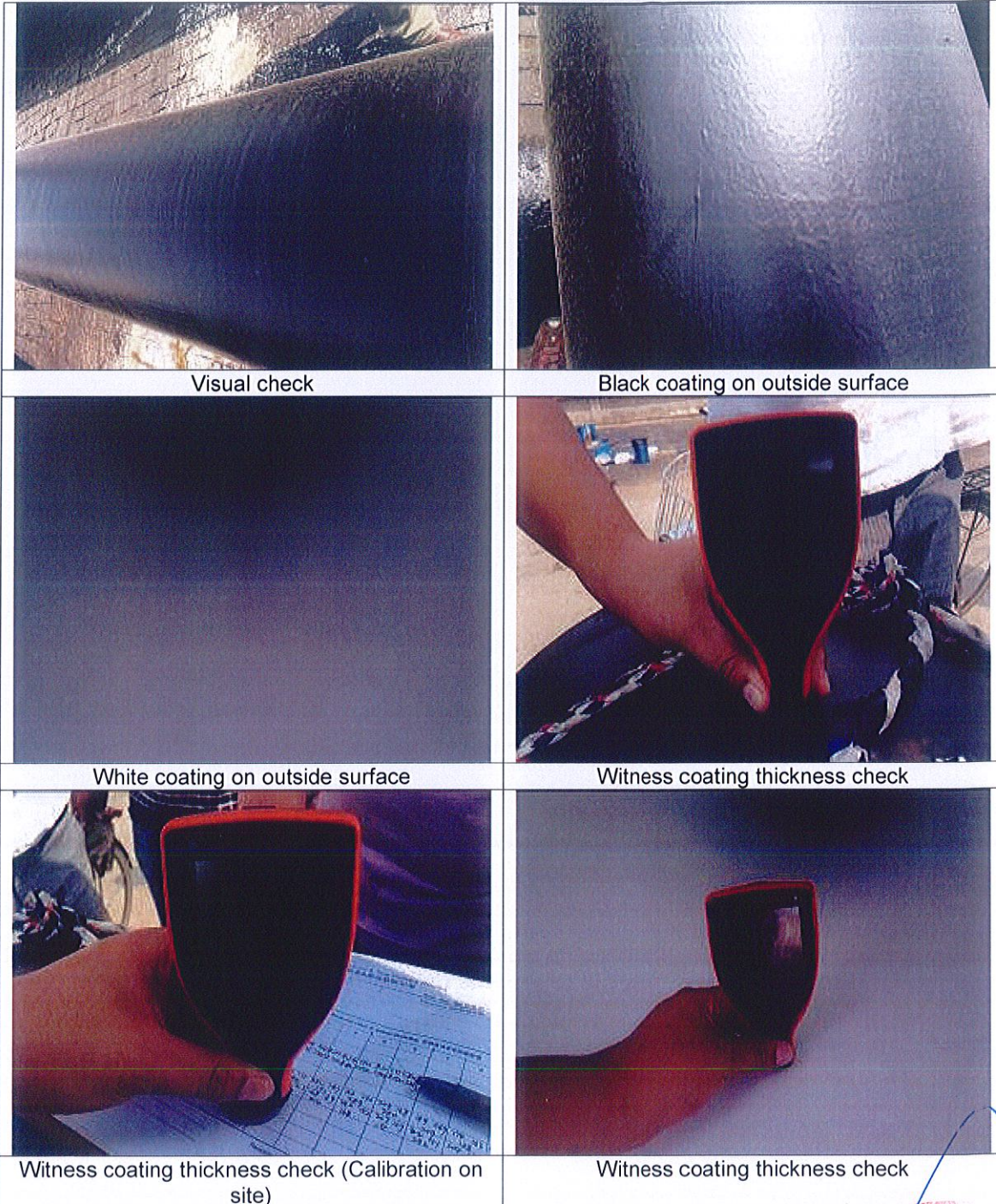


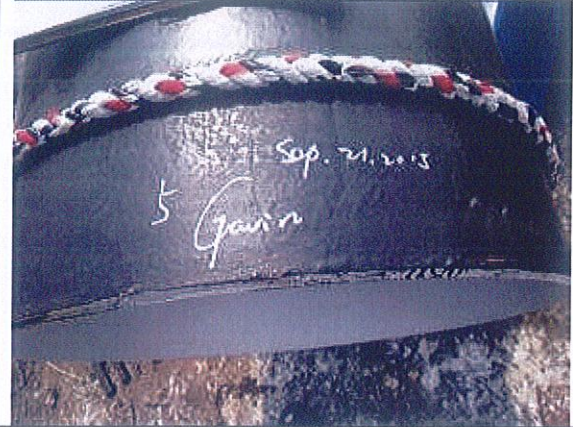
Slight coating slag



Slight coating slag





	<p>N/A</p>
<p>SGS marking on pipe</p>	<p>N/A</p>

End of report

FOR AND ON BEHALF OF
SGS-CSTC STANDARDS
TECHNICAL SERVICES CO., LTD.



AUTHORIZED SIGNATURE