



Inspection Order No. : IN-TJ-PSI-11109

Boss No. : 11810601

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Date of issue: May 14, 2011

INSPECTION REPORT

(non-negotiable)

- **Description and Quantity of Commodity:** Alloy steel tubes according to ASTM A213-T9/1200pieces

- **Name & Address Of Buyer:** PETROLEOS DEL PERU-PETROPERU S.A.
AV.PASEO DE LA REPUBLICA NO 3361
LIMA 27 PERU

- **Name & Address Of Seller:** CHENGDU DERBO STEEL CO.,LTD
ADD:ROOM NO.1025 MEINIAN PLAZA TIANFU AVENUE
CHENGDU CITY CHINA
TEL:+86-28-85223949 FAX:+86-28-85249639

- **Inspection Date & Place:** May 7, 2011, in Cangzhou City, China

- **L/C No.:** 777-01-0029098-P Date of Issue: 110423

- **Nature Of Inspection:**

- Visual quality inspection randomly
- Packing and marking check randomly
- Dimension check randomly
- Lab test for mechanical properties
- Lab test for chemical analysis

- **Inspector:** Marshall Yang

This is to report that we, SGS-CSTC Tianjin Branch on May 7, 2011 at the request of Chengdu Derbo Steel Co.,LTD conducted the following inspection:

Identification:

During the inspection, the following cargos were presented on inspection site:

Alloy steel tubes: 114.3mm*6mm*6M/ 120 pieces

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Inspection Finding:

1. Visual quality inspection randomly: (sample size: ANSI / ASQ Z1.4-2003, L-II, 20pcs tally)

During the inspection, the pipes were selected randomly for visual quality check. The pipes were painted with black varnish. Both ends were plain end. One end of 1 piece of pipe was slight bevel end. Manufacturer declared that they will repair it before shipment.

2. Packing and marking check randomly: (sample size: ANSI / ASQ Z1.4-2003, L-II, 20pcs tally)

2.1 Packing check:

The pipes were nude packing.

2.2 Marking check:

ASTM A213 T9 114.3×6.02×6M HEAT NO.:62342

3. Dimension check randomly: (sample size: according to ANSI / ASQ Z1.4-2003, S-4, 20pcs totally)

(Unit: mm)

Size		Outside diameter	Wall thickness	length
114.3×6.02×6000	Required value	114.3(+0.4,-0.8)	6.02-8.13	6000(+5,0)
	Actual value	114.5-114.7	6.02-6.3	6004-6005

Remark:

- 1) The required values were specified in ASTM A 450/A 450M-07.
- 2) The calibrated record of measure instrument which was used in the inspection was not provided by manufacturer. The actual values were for client reference.

4. Lab test:

1pc of sample was taken from manufacturer and performed lab test in SGS Material Lab, the test result was specified in test report (No.: TM905044 dated: May.14, 2011), the details were as following:

4.1 Test item: Chemical composition analysis

Test method: OES

Spec.	Element, %						
	C	Si	Mn	P	S	Cr	Mo
114.3mm×6mm	0.14	0.32	0.32	0.012	0.001	8.65	0.97
Requirement*, %	≤0.15	0.25~1.00	0.30~0.60	≤0.025	≤0.025	8.00~10.00	0.90~1.10
Conclusion	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Note:*Specified in ASTM A213/A213M-04 (T9)

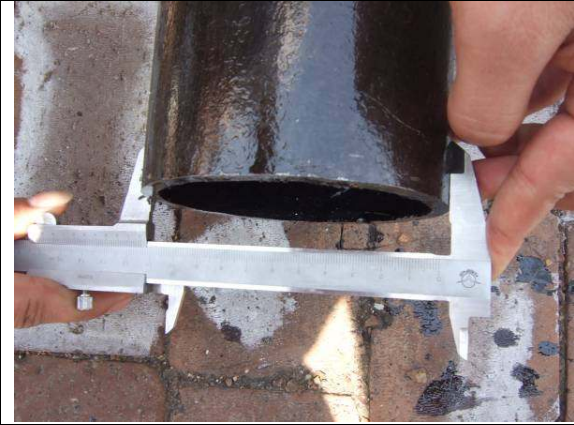
4.2 Test item: Mechanical properties test
 Test method: ASTM E8-04

Test item	result	Requirement*	Conclusion
	114.3*6mm		
Yield strength, R _{p0.2} MPa	251	≧ 205	Pass
Tensile strength, R _m MPa	561	≧ 415	Pass
Elongation after fracture, (A _{50mm}) %	32.5	≧ 30	Pass

Note: * specified in ASTM A213/A213M-04 (T9)

5. Referred photos:

	
<p>Slight beveled at the end</p>	<p>Packing check</p>
	
<p>Marking check</p>	<p>Dimension check</p>



Dimension check



Dimension check

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.