



Inspection Order No. : IN-SH-5301-10194

Page No. : 1/6

Date of issue: 24 Nov, 2010

INSPECTION REPORT

(non-negotiable)

- Description and Quantity of Commodity:

ALLOY STEEL SEAMLESS PIPE 34PCS

- Name & Address Of Buyer:

PETROLEOS DEL PERU- PETROPERU S.A AV.ENRIQUE
CANAVAL MOREYRA NO.150 LIMA 27
PERU

- Name & Address Of Seller:

CHENGDU DERBO STEEL CO.,LTD
ROON NO.:1025 MEINIAN PLAZA TIANFU AVENUE
CHENGDU CITY, CHINA
PHONE:+86-28-85223949
FAX:+86-28-85249639

- Inspection Date & Place:

17NOV, 2010 at Shanghai city, China

- PO No.:

O/C ONO-10410016-OI

- L/C No.:

28029916

- Nature Of Inspection:

Item
Quantity check
Visual quality check randomly
Packing and marking check
Dimension check randomly
Sampling and SGS lab testing

- Inspector:

Guo Jin

This is to report that we, SGS-CSTC Shanghai Branch at the request of YANGZHOU RUIDU INDUSTRIAL CO., LTD conducted the following inspection:

Inspection Finding:

1. Quantity Check by pieces:

- ♦ Reference documents:
Packing list

Disclaimer

This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS-CSTC Standards Technical Services(Shanghai) Co., Ltd
Industrial services

2/F, 9th Building No. 69, Block 1159 Kangqiao East Road Pudong
District ,Shanghai , China 200233
t: +86(0)21-61196300 f +86(0)21- 68183170 www.cn.sgs.com

Member of the SGS Group (Société Générale de Surveillance)



- Method of quantity check
Quantity check was performed by pieces

NO.	DESCRIPTION	REQ. QUANTITY	ACT. QUANTITY
1	ALLOY STEEL SEAMLESS PIPE 101.6x5.74x10363	8	8
2	ALLOY STEEL SEAMLESS PIPE 141.3x6.55x9144	5	5
3	ALLOY STEEL SEAMLESS PIPE 168.3x7.11x9144	3	3
4	ALLOY STEEL SEAMLESS PIPE 219.1x10.31x9144	18	18

Note: The quantity check result was acceptable.

2. Visual quality check

The visual check was performed and according to ANSI/ASQ Z1.4-2008, L-II sample size total 11 pieces pipe were selected randomly.

The pipes were found oil coating black painting.

Both ends were groove angle cuts but in fact the square cuts is required as per purchase order N ° O/C ONO-10410016-OI page 4.

Slightly burrs were found at the one terminal of 3 PCS pipes

Remark:

The visual check result should be subject to buyer's evaluation.

3. Packing and marking check

The packing check was performed as per sample size: ANSI/ASQ Z1.4-2008, L-II, Total 11 pieces pipes were selected randomly and found as following:

Packing check

The pipes were nude packing

Marking check

The marking were painted on the body of pipes and the details as following:

RD ASTM A213 T9 ***x***x*** SMLS *****x*****

The purchase order was not found on the body of pipes but in fact the purchase order should be showed as per purchase order N ° O/C ONO-10410016-OI page 4

Remark:

The Marking checking result should be subject to buyer's evaluation.



4. Dimension check randomly

The Dimension check was randomly performed as per sample size; ANSI/ASQ Z1.4-2008, L-II total 11 pieces pipes were selected and the details as following

SIZE		Outside diameter(mm)	Wall thickness(mm)	Length(mm)
101.6×5.74×10363	Required value	100.8-102.4	5.02-6.6	10063 min
	Actual value	101.6, 101.6	5.518, 5.558	10352, 10363
141.3×6.55×9144	Required value	139.9-142.3	5.73-8.02	8844 min
	Actual value	142.2, 141.6	6.789, 7.561	9152, 9154
168.3×7.11×9144	Required value	166.5-169.5	6.22-8.71	8844 min
	Actual value	168.0, 167.2	6.334, 6.646	9122, 9112
219.1×10.31×9144	Required value	216.7-220.5	9.02-12.63	8844 min
	Actual value	218.8, 218.3, 217.5, 217.1, 216.8	10.149,10.423, 9.965,10.014, 10.339	9133, 9135, 9151, 9125, 9120

Remark:

The required value was specified in purchase order N °O/C ONO-10410016-OI table 1 and the actual value were found met to the required values, the results were acceptable.

5. Sampling and SGS lab testing

Total 4 pieces pipes 200mm length were sample at jobsite.

SGS inspector marked the heat No., OD dimension and SGS file No.IN-SH-5301-10194 on the sample and sent to SGS Lab by courier, test details were as below:

5.1. Chemical composition analysis:

Ref. standard: ASTM E 1086-08

Element	C	Si	Mn	P	S	Cr	Mo	Conclusion
Requirement, %	≤0.15	0.25~1.00	0.30~0.60	≤0.025	≤0.025	8.00~10.00	0.90~1.10	-
Result, %-101.6×5.74	0.11	0.38	0.36	0.018	0.003	8.66	0.95	Pass
Result, %-141.3×6.55	0.11	0.36	0.35	0.013	0.004	8.59	0.93	Pass
Result, %-168.3×7.11	0.11	0.38	0.36	0.015	0.003	8.52	0.93	Pass
Result, %-219.1×10.31	0.11	0.36	0.46	0.014	0.002	8.36	0.95	Pass

Note: The requirement is specified in ASTM A213/A213M-2010 type T9.

5.2. Tensile test:

Test method: ASTM A370-10

Test item	Tensile strength (Rm) (N/mm ²)	Yield strength (RP0.2) (N/mm ²)	Elongation after fracture(A) Gauge length=50mm (%)	Conclusion
Req.	≥415	≥205	≥30	-
Result, 101.6×5.74	506	307	32.0	Pass
Result, 141.3×6.55	526	232	36.5	Pass
Result, 219.1×10.3	614	384	34.0	Pass

Note: The requirement is specified in ASTM A213/A213M-2010 type T9.

Test item	Tensile strength (Rm) (N/mm ²)	Yield strength (RP0.2) (N/mm ²)	Elongation after fracture(A) Gauge length=50mm (%)	Conclusion
Req.	≥585	≥415	≥20	-
Result, 168.3×7.11	690	546	22.5	Pass

Note: The requirement is specified in ASTM A213/A213M-2010 type T91.

Attachment photos:



burr



groove angle cut



101.6x5.74x10363, 141.3x6.55x9144 total 13pcs



168x7.11x9144 3pcs



219.1x10.31x9144 18pcs



marking



Dimension check



Dimension check



Dimension check



Sample marking



Sample loading



Bill of courier

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.

---The end of report---