

		Page	1/	10
Paue 1/10	Page 1/10	$\Box \circ \circ \circ$	11/	1 /1
		Paue	17	w

 \square Interim

■Final

INSPECTION REPORT N°: MDP/SH-13/076-001

PROJECT: N/A	Ref: MDP/SH-13/076
BV Client: CHENGDU DERBO STEEL CO.,LTD	P/o nr:
	(client to BV)
	P/o nr:
Manufacturer: CHENGDU DERBO STEEL CO.,LTD	SPRO/PO/13/1013(1)
Inspection requested by: CHENGDU DERBO STEEL CO., L	LTD

SUPPLY / SUBJECT OF INSPECTION	ITEM / TAG Nr	INSPECTED QTY
API 5L SMLS PIPE 114.3*13.49mm PLS2, Gr.B, 3PE	Pipe No from	212 PCS
PROJECT: C.BN.CCS.DL.08.001.1231N-WELL TIE IN PROJECT	001~212, For detail	2500.8 m
	see packing list	

DOCUMENTS OF REFERENCE: See continuation sheet for additional documents: ☐ Yes ☒ No							
Title	Reference n°	Rev.	Approved by	Date			
Specification for Line Pipe	API 5L	45	API	2013			
The Contract between Derbo and BV	ONS/S-Q130801	01	Derbo and BV	2013.08.01			
Polyethylene coating for steel pipes and fittings	DIN 30670	1991					

INSPECTIONS:	Results of inspection: ☐ Unsatisfactory
Inspection place & Date or Period:	
Place(WSP): Pipe factory Xindian Town,	Non Conformities Reports (NCR):
Menchun County, Hebei Province	☐ NCR's issued during reported period :
Coating factory Xuannan District, Yanshan	No
County, Hebei Province	
Date: Aug 08~ Aug 09, 2013	☐ List of outstanding NCR's :
Stage of inspection:	No
☐ Before manufacturing	
☐ During manufacturing	Main Conclusions & Remarks: (for details see continuation sheet)
⊠ Final	,
☐ Packing	As client request, BV inspector performed the inspection for
	visual, dimension, material test, coating and so on.
Type of inspection:	BV inspector also reviewed the mill certificate.
□ Pre-inspection meeting	τρουστού του το
	The inspection result was acceptable according to relevant
⊠ Final inspection	standards and contract requirement. For detail, please see below
 ⊠ Document review	inspection report content.
☐ Expediting & vendor	
	Next visit scheduled:
assessment	No
□ Packing	
(for details see continuation sheet)	
Stamping:	
│ <i>₩</i> _ <i>\</i>	



⊃age	2/1	0
------	-----	---

□Interim

Final

INSPECTION REPORT N°: MDP/SH-13/076-001

BV Job nr: MDP/SH-13/076

Description of the inspections carried out:

Introduction

As per request of **DERBO STEEL**, BV inspectors from BV China performed the third party inspection for above listed pipes at Mengcun County, Hebei Province, China. and Yanshan County, Hebei Province, China during Aug 08th~ Aug 09th, 2013.

The inspection results were acceptable.

BV Scope of work:

Bureau Veritas inspector performed Third Party Inspection against the approved contract.

M-1 Visual and dimension inspection (10%)

M-2 Witness mechanical and chemical test

M-3 Outside coating inspection(10%, mainly include coating thickness, holiday test and peeling test)

M-4 Review MTC

Attended persons:

Mr. Wenbin Liu BV China Inspector Mr. Yang Liu Derbo Steel QC

Manufacturing Progress Status

All the pipes had been finished manufacturing and storaged in coating mill outside yard before BV inspector arrived site.

For the packing list, see annex 01.

Details of inspection activities carried out with respect to scope of work

M-1 Visual and dimension inspection (10%)

According to inspection requirement, total 22 pieces of pipe were selected for visual and dimension inspection. The pipes' No are 004, 199, 200, 201, 45, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 161, 174, 192, 110, 7, 116.

BV inspector checked the inner surface and pipe cutback area surface, include bevel quality, the surface quality is acceptable.

The pipe end protector have not installed for each pipe end before BV inspector left factory,



Page	3/10
------	------

□Interim

Final

INSPECTION REPORT N°: MDP/SH-13/076-001

BV Job nr: MDP/SH-13/076

BV checked the pipe marking during this inspection, the marking content is DERBO STEEL API 5L GR.B PLS 2 SMLS 4"Xsch160X11.8M HEAT NO 1307209 2.7MM 3LPE COATED DIN30670 C.BN.CCS.DL.08.001.1231N WELL TIE IN PROJECT. The inspection result is acceptable.

BV inspector checked the pipe OD, wall thickness, bevel angle, root face and length. Each pipe length is 11.8m except the pipe for material test sampling. The length of the sampling pipe is 11.0m checked by manufacturer after BV inspector left factory. The inspection result is acceptable. Table of dimension is as follows:

STANE	STANDARD		TUAL
THICKNESS	OD	THICKNESS	OD
13.49	114.3	13.10-13.55	114.1-114.9

The visual and dimension inspection result is acceptable.

M-2 Witness mechanical and chemical test

According to the product list which was provide by factory, the 212 pieces of pipe are one heat no and lot no, the Heat no is 1307209, the lot no is B1307-70-1.

Test sample was cut from pre-reserved pipe by factory, the pipe no is 084. BV inspector witnessed the sampling process, and then the sample was sent to mills laboratory for specimen manufacturing.

BV inspector witnessed mechanical test and chemical test, the test process and test result is acceptable according to API 5L. Before the test, BV inspector reviewed the test equipment certificate, the review result is acceptable.

The mechanical and chemical test inspection result is acceptable.

Chemical test

HEATNO.	С	Si	Mn	Р	S	Cu	Cr	Ni	Мо	V
1307209	0.21	0.22	0.50	0.014	0.009	0.049	0.041	0.023	0.0005	0.0019

Mechanical test

HEAT NO.	TS (Mpa)	YS (Mpa)	EL %	Impacting (J) Energy(Transverse)
1307209	551	418	34	135

M-3 Outside coating inspection(10%, mainly include coating thickness, holiday

According to inspection requirement, total 22 pieces of pipe were selected for visual and dimension inspection. The pipes' No are 004, 199, 200, 201, 45, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 161, 174, 192, 110, 7, 116.

Before the inspection, BV inspector reviewed the equipment certificates of thickness gauge, holiday detector, the review result is acceptable.

BV inspector witnessed coating layer thickness check, holiday test, cut back length and coating



Page 4/10

□Interim

■Final

INSPECTION REPORT N°: MDP/SH-13/076-001

BV Job nr: MDP/SH-13/076

visual quality for these pipes, the inspection result is acceptable according to standard requirement.

The peeling test was performed on sampling pipe(pipe no:084), the test result is acceptable.

The inspection of coating is acceptable.

M-4 Review MTC

The MTC of bare pipe and coating were provided for reviewing by Derbo, the certificates no is DB13105 and DB13106.

The review result of MTC is acceptable.

> Results of Inspection

Acceptable

- > Problems pending
- Photos on site.



Pipe storage status



Pipe makring

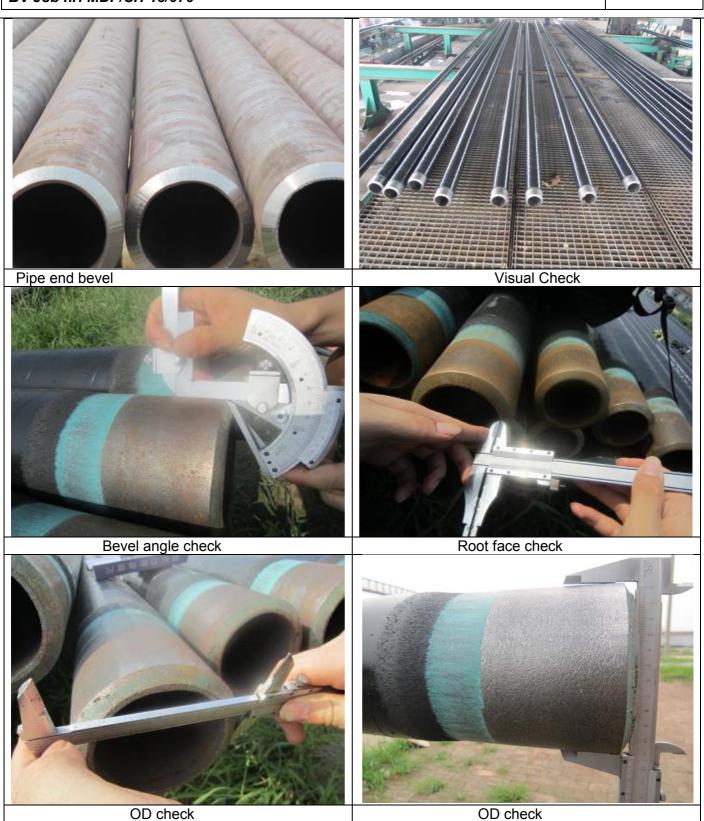


Page 5/10

 \square Interim

■Final

INSPECTION REPORT N°: MDP/SH-13/076-001





Page 6/10

□Interim

Final

INSPECTION REPORT N°: MDP/SH-13/076-001





Page 7/10

□Interim

Final

INSPECTION REPORT N°: MDP/SH-13/076-001





Page 8/10

□Interim

Final

INSPECTION REPORT N°: MDP/SH-13/076-001



Impact Test



Certificate of chemical analysis equipment



Certificate of holiday detector



Holiday Test



Coating layer thickness check



Page 9/10

□Interim

Final

INSPECTION REPORT N°: MDP/SH-13/076-001





Page 10/10

□Interim

■Final

INSPECTION REPORT N°: MDP/SH-13/076-001

ANNEXES Yes No Annex 01-packing list

Inspected by:	SALUTY SERVICES	Checked by:
Name: Wenbin Liu,	SHANGHAD S	Name:Anjiao Li
Signature:	37708	Signature:
Date of issue: Aug 09, 2013		
Inspection centre: BV Shangha	i	
Distribution: CLIENT	MANUFACTURER	