

DET NORSKE VERITAS Inspection Report

Purchaser :

Manufacturer : Changsha Hunan Steel Co.,LTD.

Manufacturer Location : Hunan Steel Industrial Zone, Furong Special District, Changsha City, Hunan, China

Production Description: API 5L X52 PSL1

Reference Standard : API 5L

Date/Duration of Test : 10st and 15th June, 2017

Upon the request of Changsha Hunan Steel Co.,LTD., DNV undersigned surveyor had performed a third party inspection for above stated API 5L PSL1 X52 pipes on 10st and 15th June, 2017.

Followings were summary of API 5L PSL1 pipes inspected by undersigned surveyor covered by this report:

No.	Heat No.	Steel Grade	Specification (OD*WT*L mm)	Quantity (pcs)
1	3041349102	X52 PSL1	609.6*24.60*6000	6
2	3091210404	X52 PSL1	609.6*24.60*9200	7
3	3041349103	X52 PSL1	609.6*24.60*9200	1
4	3091210403	X52 PSL1	609.6*28.00*6000	8
5	3091210102	X52 PSL1	609.6*28.00*1200	15
6	3041349101	X52 PSL1	609.6*28.00*1200	9

The above mentioned line pipes have been manufactured and stored in their warehouse before DNV inspection. As specification requirement, the following inspection/witness items were performed:

1. Visual and Marking inspection:

- Visual inspection of above pipes were carried out on storage site and dimension check was performed at random, the results are in order and satisfactory.
- Pipe marking was check randomly, and found satisfactory and in accordance with specification requirement.

2. Material Mechanical Properties Test

- The equipment calibration certificates and UT personnel certificates were checked and were found to be within period of validities.
- Witnessed mechanical properties testing and chemical composition testing and the results are in accordance with specification requirement. Refer to testing reports.

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3. Review of QC Records/Reports

The following QC documents were reviewed:

- Tension / bend sample test records/reports.
- Chemical composition test record/report.
- Hydraulic pressure test records/reports.
- X-ray and UT testing reports

4. Mill Certificates

Above mentioned mill certificates of LSAW Steel pipes were reviewed.

Remark: The above mentioned pipes are not evaluated for class use.

Det Norske Veritas (China) Co., Ltd China Oil and Gas Reported by



Surveyor

June 2nd, 2017. Dechn Lu