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Lloyd's Register Classification
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To: Shengtian Pipe Fittings Co.,Ltd
Attn:刘兰萍
Tel: 0317-5298199

Date 31 Mar 2014

Your ref

Our ref CNG1200025-32
OG/CN/14-08

刘工,

您好, 附上贵公司的检验报告, 请您查收!

1. VR-01 CNG1200025-32

Your faithfully,

Celine Wang
Administrator

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Visit Report

Visit report number CNG1200025-32-VR-01	Date of issue 27 March 2014	Office Shanghai	Control number CNG1200025-32
Report of visit to SHENG Tian PIPE FITTINGS CO.,LTD Hedong Industrial Area, Mengcun Hui Autonomous County Cang Zhou City, Hebei Province, China			Date of visit 22 March 2014
Client CNOOC IRAQ LIMITED		Project The third Party Inspection for Pipe and Pipe-Fittings in China for Missan Oil Field Development Project	
Client reference		Co-ordinated contract reference	

Supplier Tariq Co. For General Trading	Main order number STYK20131025L
Sub-supplier SHENG Tian PIPE FITTINGS CO.,LTD.	Sub-order number
Period covered by this visit report 22~26 March 2014	Order status Complete
Item number N/A	Tag number N/A
Description of item Flange,Elbow,Tee,Reduced Tee,Threadolet,Weldolet,Blind Flange,Nipple Thread,Gasket,Bolt & Nut ,Pipe	
Primary documents Specification from ASTM A234 Gr.WPB, ASTM A193-B7M / 194-2HM, A106 GR.B,NACE MRO175,ANSI B16.9-2009/ ANSI B36.10-2004/ ANSI B36.11-2004/ ASME B16.5-2009/ ASME B 18.2.1-2010/ Drawings	

Report of activities

Third party inspection was taken by the undersigned inspector in Shengtian Pipe Fittings Co.,Ltd as per the Primary Documents during 22 March 2014~26 March 2014

1. Description of items:

Item	Production	Description	Material	Unit	Quantity
1	Flange	3/4", WN,SCH80,RF, 300#,ASME B16.5, Sour service	ASTM A105	piece	250
2	Flange	1", WN,SCH80,RF, 300#,ASME B16.5, Sour service	ASTM A105	piece	100
3	Flange	2", WN,SCH80,RF, 300#,ASME B16.5, Sour service	ASTM A105	piece	150
4	Flange	3", WN,SCH80,RF, 300#,ASME B16.5, Sour service	ASTM A105	piece	50
5	Flange	4", WN,SCH40,RF, 150#,ASME B16.5, Sour service	ASTM A105	piece	40
6	Flange	4", WN,SCH40,RF, 300#,ASME B16.5, Sour service	ASTM A105	piece	320
7	Flange	6", WN,SCH40,RF, 300#,ASME B16.5, Sour service	ASTM A105	piece	1150
8	Flange	14" WNRF #300 SCH 40 ASME B16.5, Sour service	ASTM A105	piece	20
9	Flange	18" 900# SCH100 RTJ WN ASME B16.5, Sour service	ASTM A105	piece	4
10	Flange	12" 900# SCH100 RTJ WN ASME B16.5, Sour service	ASTM A105	piece	2
	Total			piece	2096
1	Elbow	3", LR90,BW,SCH80,ANSI B16.9,Seamless, Sour service	ASTM A234 Gr.WPB	piece	60
2	Elbow	4", LR90,BW,SCH80,ANSI B16.9,Seamless, Sour service	ASTM A234 Gr.WPB	piece	180
3	Elbow	6", LR90,BW,SCH40,ANSI B16.9,Seamless, Sour service	ASTM A234 Gr.WPB	piece	230
	Total			piece	470
1	Tee	6", BW,SCH40,ANSI B16.9,Seamless Sour service	ASTM A234 Gr.WPB	piece	140

Visit Report

Visit report number CNG1200025-32-VR-01	Date of visit 22 March 2014	Office Shanghai	Control number CNG1200025-32
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2	Tee	6"×4" BW,SCH40XSCH80,ANSI B16.9,Seamless, Sour service	ASTM A234 Gr.WPB	piece	290
3	Tee	6"×3" BW,SCH40,ANSI B16.9,Seamless, Sour service	ASTM A234 Gr.WPB	piece	100
	Total			piece	530
1	ECC REDUCER	1"×1/2" BW,SCH80,ANSI B16.9,Seamless, Sour service	ASTM A234 Gr.WPB	piece	50
2	ECC REDUCER	8"×6", BW,SCH40,ANSI B16.9,seamless, Sour service	ASTM A234 Gr.WPB	piece	10
3	ECC REDUCER	18"×10",SCH100*SCH80 WN ANSI B16.9,Seamless, , Sour service	ASTM A234 Gr.WPB	piece	2
4	ECC REDUCER	10"×6",SCH100*SCH80 WN ANSI B16.9,Seamless, , Sour service	ASTM A234 Gr.WPB	piece	2
5	ECC REDUCER	18"×12" SCH100*SCH60 WN ANSI B16.9,Seamless, Sour service	ASTM A234 Gr.WPB	piece	1
6	ECC REDUCER	18"×14" SCH100*SCH60 WN ANSI B16.9,Seamless, , Sour service	ASTM A234 Gr.WPB	piece	1
7	ECC REDUCER	18"×10" SCH100*SCH60 WN ANSI B16.9,Seamless, , Sour service	ASTM A234 Gr.WPB	piece	1
	Total			piece	67
1	Thredolet	6"×3/4", Seamless TO ANSI B16.9Seamless, Sour service	ASTM A234GR.WPB	piece	60
2	Thredolet	1/2", Seamless TO ANSI B16.9, Sour service	ASTM A234GR.WPB	piece	90
3	Thredolet	1", Seamless TO ANSI B16.9, Sour service	ASTM A234GR.WPB	piece	90
	Total			piece	240
1	Weldolet	3"×1/2", WN SCH XS XSCH XS, Seamless TO ANSI B16.9, Sour service	ASTM A234GR.WPB	piece	100
2	Weldolet	6"×1", WN SCH STD XSCH XS, Seamless TO ANSI B16.9, Sour service	ASTM A234GR.WPB	piece	50
3	Weldolet	6"×2", WN SCH STD XSCH XS, Seamless TO ANSI B16.9, Sour service	ASTM A234GR.WPB	piece	100
4	Weldolet	6"×3/4", WN SCH STD XSCH XS, Seamless TO ANSI B16.9, Sour service	ASTM A234GR.WPB	piece	150
5	Weldolet	10"×4", SCH STD/SCH XS, Seamless TO ANSI B16.9, Sour service	ASTM A234GR.WPB	piece	50
6	Weldolet	14"×4", SCH STD/SCH XS, Seamless TO ANSI B16.9, Sour service	ASTM A234GR.WPB	piece	50
	Total			piece	500
1	Blind Flange	3/4",RF, 300#,ASME B16.5, Sour service	ASTM A105	piece	140
2	Blind Flange	2",RF, 300#, ASME B16.5, Sour service	ASTM A105	piece	50
3	Blind Flange	6",RF, 300#, ASME B16.5, Sour service	ASTM A105	piece	130
	Total			piece	330
1	Nipple Thread	1", SEAMLESS, L=100mm MNPT C.S.SCH80, AS PER ANSI B36.11,1", Sour service	ASTM A106 GR.B	piece	100
2	Nipple Thread	3/4" MNPT-120, SCH80, AS PER ANSI B36.10, Sour service	ASTM A106 GR.B	piece	60
3	Nipple Thread	1/2", SEAMLESS, L=100mm MNPT C.S.SCH80, AS PER ANSI B36.10, Sour service	ASTM A106 GR.B	piece	100
	Total			piece	260
1	Gasket	3/4", 300#,316SS SPIRAL WOUND GRAPHITE WITH 3MM THK,316SS INNER RING AND CS OUTER RING, ASME B16.20, Sour service	316SS	EA	300
2	Gasket	1", 300#,316SS SPIRAL WOUND GRAPHITE WITH 3MM THK,316SS INNER RING AND CS OUTER RING, ASME B16.20, Sour service	316SS	EA	100
3	Gasket	2", 300#,316SS SPIRAL WOUND GRAPHITE WITH 3MM THK,316SS INNER RING AND CS OUTER RING, ASME B16.20, Sour service	316SS	EA	200
4	Gasket	3", 300#,316SS SPIRAL WOUND GRAPHITE WITH 3MM THK,316SS INNER RING AND CS OUTER RING, ASME B16.20, Sour service	316SS	EA	60
5	Gasket	4", 150#,316SS SPIRAL WOUND GRAPHITE WITH 3MM THK,316SS INNER RING AND CS OUTER RING, ASME B16.20, Sour service	316SS	EA	60

Visit Report

Visit report number CNG1200025-32-VR-01	Date of visit 22 March 2014	Office Shanghai	Control number CNG1200025-32
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6	Gasket	4", ANSI316L/GRAPHITE 300#, ASME B16.5/B16.47 flanges, RF, ASME B16.20, 4.5mm THK, Sour service	316L	EA	360
7	Gasket	6", 300#, 316SS SPIRAL WOUND GRAPHITE WITH 3MM THK, 316SS INNER RING AND CS OUTER RING, ASME B16.20, Sour service	316SS	EA	1100
8	Gasket	10", ANSI316L/GRAPHITE 300#, ASME B16.5/B16.47 flanges, RF, ASME B16.20, 4.5mm THK, Sour service	316L	EA	50
9	Gasket	14", ANSI316L/GRAPHITE 300#, ASME B16.5/B16.47 flanges, RF, ASME B16.20, 4.5mm THK, Sour service	316L	EA	50
	Total			EA	2280
1	Bolt & Nut	5/8"×120 Full Length Unc, /W Two Hexagonal Nuts To ASME B 18.2.1/18.2.2 Stud Bolts, Alloy Steel, Hot Dip Galvanized to ASTM 153, Sour service	ASTM A193-B7M /194-2HM	SET	1800
2	Bolt & Nut	5/8"×90 Full Length Unc, /W Two Hexagonal Nuts To ASME B 18.2.1/18.2.2 Stud Bolts, Alloy Steel, Hot Dip Galvanized to ASTM 153, Sour service	ASTM A193-B7M /194-2HM	SET	1600
3	Bolt & Nut	3/4"×110 Full Length Unc, /W Two Hexagonal Nuts To ASME B 18.2.1/18.2.2 Stud Bolts, Alloy Steel, Hot Dip Galvanized to ASTM 153, Sour service	ASTM A193-B7M /194-2HM	SET	400
4	Bolt & Nut	3/4"×120 Full Length Unc, /W Two Hexagonal Nuts To ASME B 18.2.1/18.2.2 Stud Bolts, Alloy Steel, Hot Dip Galvanized to ASTM 153, Sour service	ASTM A193-B7M /194-2HM	SET	14100
	Total:			SET	17900
1	U-bolt	U-bolt with four nuts 6", Sour service	ASTM A234GR.WPB	piece	160
2	U-bolt	U-bolt with four nuts 10", Sour service	ASTM A234GR.WPB	piece	20
3	U-bolt	U-bolt with four nuts 14", Sour service	ASTM A234GR.WPB	piece	20
	Total:			piece	200
1	Pipe	10" seamless, steel pipe, BE, sch30, ANSI B36.10, Sour service	ASTM, A106 GR.B	M	150
2	Pipe	4" seamless, steel pipe, BE, sch40, ANSI B36.10, Sour service	ASTM, A106 GR.B	M	500
3	Pipe	3" seamless, steel pipe, BE, sch80, ANSI B36.10, Sour service	ASTM, A106 GR.B	M	260
	Total:			M	910

2. Review of the documents, and found satisfactory.

2.1, Inspection record

- > Fittings and flanges list
- > Visual Dimensional record

2.2, The final documents of production

- > Inspection certificate
- > Material certificate
- > NDT report

3. Witness of raw material chemical component test and mechanical performance test:

3.1 LR inspector witness of raw material chemical component tests as per ASTM A234 Gr.WPB, A105, ASTM A193-B7M /194-2HM, 316SS/316L, A106 GR.B. The results are satisfactory.

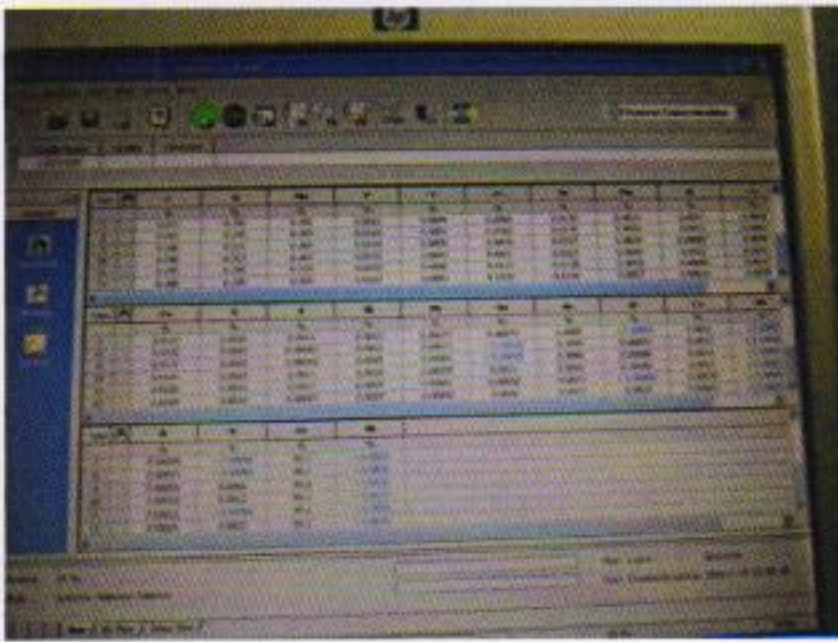
3.2 LR inspector witness of raw material mechanical performance tests as per ASTM A234 Gr.WPB, A105, ASTM A193-B7M /194-2HM, 316SS/316L, A106 GR.B. The results are satisfactory.



Visit Report

Visit report number CNG1200025-32-VR-01	Date of visit 22 March 2014	Office Shanghai	Control number CNG1200025-32
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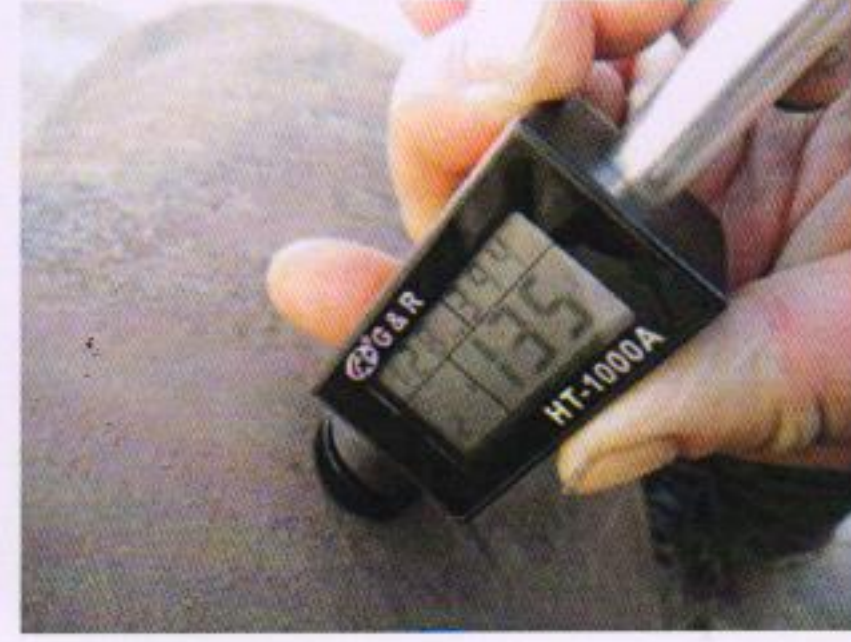
3.3 LR inspector witness of raw material Hardness tests as per NACE MR0175. The results are satisfactory.



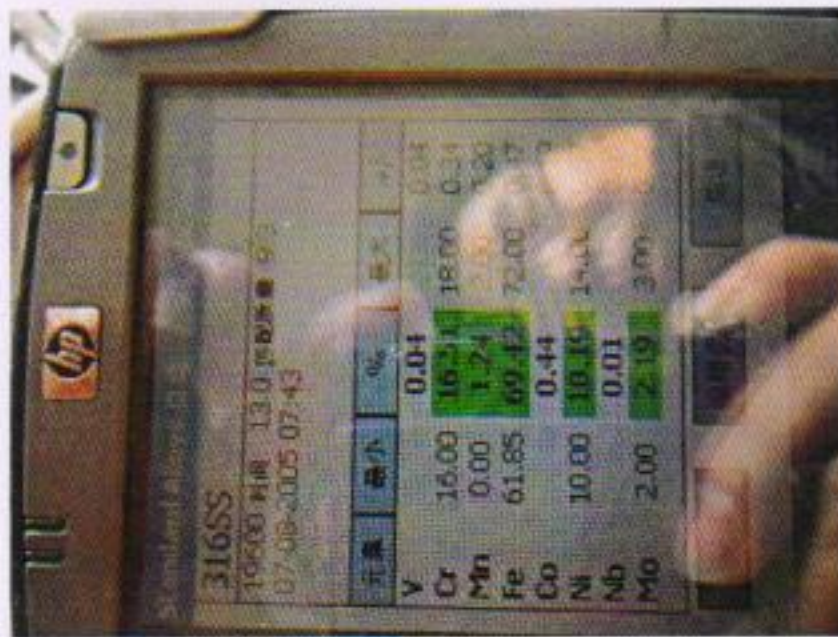
Chemical component tests



Mechanical performance tests

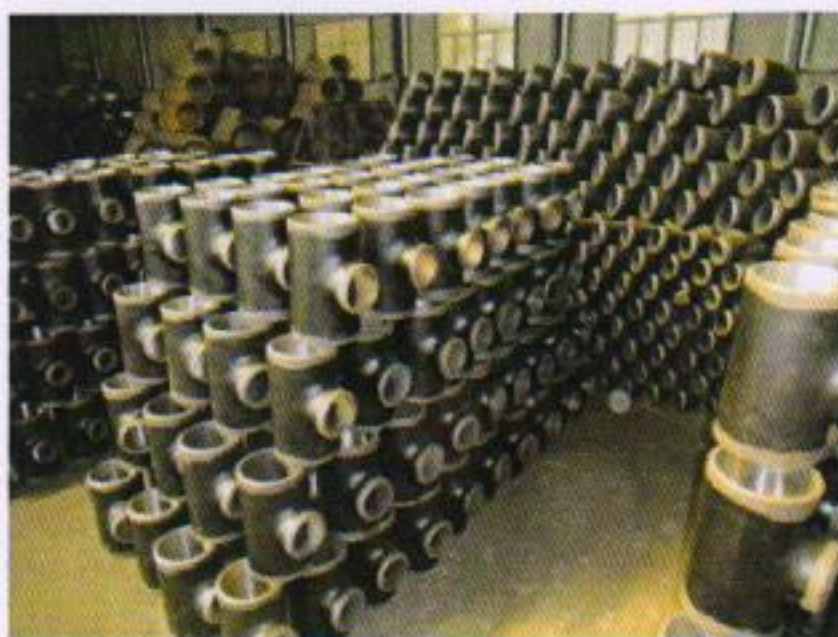


Hardness tests



PMI Test

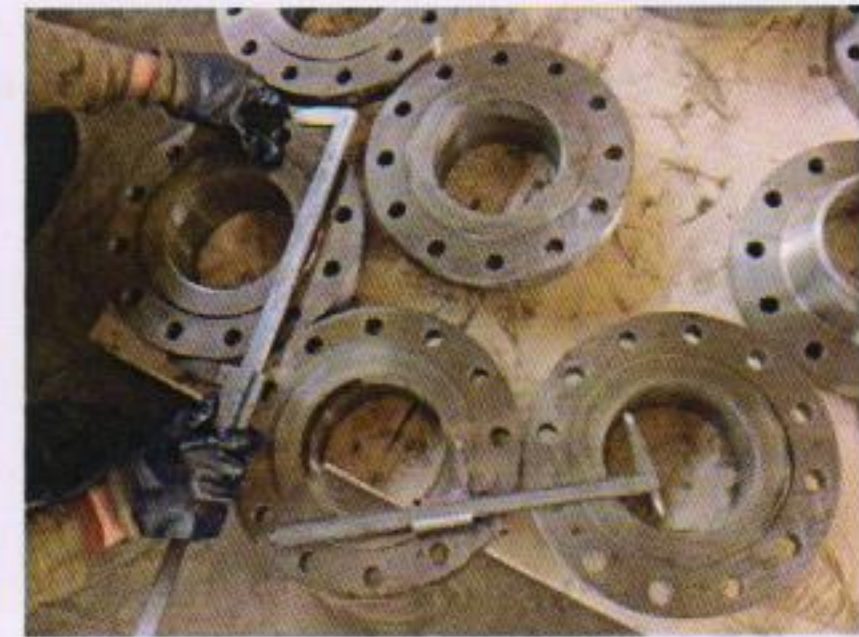
4. Witness of sampling as per surveyor's selection and pay Visual and Dimensional inspection:
The 10% of flanges and the fittings per specification selected which marked in the above lists, and made Visual and Dimension check as per Manufacturer's specification, the results are satisfactory.



Visual check



Dimension check(Elbow)



Dimension check(Flange)

5. Conclusion:

Based on the inspection undertaken above, the products were found in comply with the applied Primary Documents.



6. Outstanding Items: N/A

Note: IRN-001 is used to close NAN-CNG1200025-32-01.

Visit Report

Visit report number CNG1200025-32-VR-01	Date of visit 22 March 2014	Office Shanghai	Control number CNG1200025-32
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Inspection	Travel expenses: car	Travel	Reporting
Other(s)			

Distribution: original SHENGTIAN PIPE FITTINGS CO.,LTD	Signature  
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