

**Summary of Test Results**

Reference no. : BC-SUMMARY-2022-014

Customer : Gate Way Valve &amp; Fitting Ltd.

Address : Flat A1, 4/F., Galaxy Factory Building, 25 Luk Hop Street, San Po Kong, Kowloon, H. K.

Sample description : Basket Type Strainer

Nominal pressure (PN) : 16

Manufacturer : Yoshitake Works (Thailand) Ltd.

Brand name : Yoshitake

Body marking :  → (DN)

Model no. : SU-50H

Origin : Thailand

Sample submitted by : Gate Way Valve &amp; Fitting Ltd.

Test standard : BS EN 1092-2 : 1997 / WIS 4-52-01 Dec. 1992 Issue 1 / BS EN 12266-1 : 2012 / BS EN 1563 : 2011 / BS EN 10088-1 : 2014

Test period : 18 January to 21 February 2022

**A) Sample List**

DN (mm)	Specimen no.
50	220110-2240-001
65	220110-2240-002
80	220110-2240-003
100	220110-2240-004
150	220110-2240-005

**B) Test Item****1) Dimensions Check (In-house method / BS EN 1092-2 : 1997 Table 9)**

DN (mm)	Test results	Castco LRN
50	Passed	220110-2240
65	Passed	
80	Passed	
100	Passed	
150	Passed	

**2) Coating Thickness Test (WIS 4-52-01 Dec. 1992 Issue 1 Appendix B)**

DN (mm)	Test results	Castco LRN
50	Passed	220110-2240
65	Passed	
80	Passed	
100	Passed	
150	Passed	

## Summary of Test Results

Reference no. : BC-SUMMARY-2022-014

## B) Test Item (con't)

## 3) Shell Tightness to Internal Pressure (BS EN 12266-1 : 2012 Clause 4)

DN (mm)	Test results	Castco LRN
50	Passed	220110-2240
65	Passed	
80	Passed	
100	Passed	
150	Passed	

## 4) Tensile Test (BS EN 1563 : 2011 Clause 7.2.1.1 Table 1 (Grade EN-GJS-450-10) and Clause 9.1)

DN (mm)	Test results	Castco LRN
50	Passed	220110-2240
80	Passed	
150	Passed	

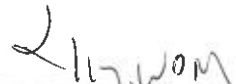
## 5) Chemical Composition (Screen) (BS EN 10088-1 : 2014 Table 2 Grade 1.4401 (316))

DN (mm)	Test results	Castco LRN
50	Passed	220111-2235
80	Passed	220111-2236
150	Passed	220111-2237

Prepare by :  
Date : 22 February 2022

 **FU HO MAN**  
Assistant Technical Manager

Review by :  
Date : 22 February 2022

 **WONG KA MAN**  
Senior Manager

Test Report  
Strainers - Dimensions  
(In-house method VAL-STRAINER-DIM)

Date of issue : 22 February 2022

Page 1 of 5 page(s)

Castco LRN : 220110-2240

**Details as supplied by customer**

Customer : Gate Way Valve & Fitting Ltd.

Customer's ref. no. : - -

Address : Flat A1, 4/F., Galaxy Factory Building, 25 Luk Hop Street, San Po Kong, Kowloon, H. K. Contract no. : - -

Job title : - -

Sample description : Basket Type Strainer

Nominal pressure (PN) : 16

Manufacturer : Yoshitake Works (Thailand) Ltd.

Brand name : Yoshitake

Body marking :   (DN)

Model no. : SU-50H

Origin : Thailand

Sample submitted by : Gate Way Valve & Fitting Ltd.

**Laboratory test results**

Date of sample received : 10 January 2022

Date of test : 18 January 2022

Specimen no.		220110-2240-001	220110-2240-002	220110-2240-003	220110-2240-004	220110-2240-005
DN (mm)		50	65	80	100	150
Ambient temperature (°C)		22.2	22.2	22.2	22.2	22.2
Outside diameter of flange (mm)	Measured mean value	166	188	203	228	304
	Requirement	165	185	200	220	285
Diameter of bolt circle (mm)	Measured mean value	125	145	160	180	241
	Requirement	125	145	160	180	240
Diameter of bolt hole & Bolts number (mm & no.)	Measured mean value	19.64 & 4	19.70 & 4	19.66 & 8	19.79 & 8	23.91 & 8
	Requirement	19 to 20.5 & 4	19 to 20.5 & 4	19 to 20.5 & 8	19 to 20.5 & 8	23 to 24.5 & 8
Flange thickness (mm)	Measured mean value	21.91	21.90	24.60	25.74	29.01
	Requirement	19 to 26	19 to 26	19 to 26	20 to 27	23 to 30

Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 1092-2 : 1997 Table 9 (this specification is not covered by the laboratory's HOKLAS accreditation).
3. The acceptance limit is the same as the tolerance limit (simple acceptance, see Figure A). Only test results out of the tolerance/acceptance limit will be concluded as out-of-tolerance.

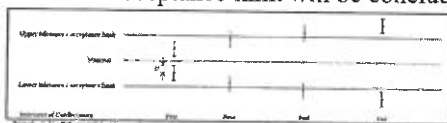
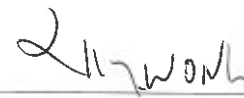


Figure A - Graphical representation of a binary acceptance - Simple acceptance

  
**FU HO MAN**  
Assistant Technical Manager

Checked by : \_\_\_\_\_

Approved Signatory : \_\_\_\_\_

  
**WONG KA MAN**  
Senior Manager

Form no. : BC\_STRAINERS\_DIM\_IN-HOUSE\_T\_dd\_29/06/2021

## Test Report

## Valves - Coating Thickness Measurement

(WIS 4-52-01 Dec. 1992 : Issue 1 Appendix B in conjunction with the following specification(s) : WIS 4-52-01 Dec. 1992 : Issue 1 Cl. 12.7.1)

Date of issue : 22 February 2022

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Castco LRN : 220110-2240

**Details as supplied by customer**

Customer : Gate Way Valve &amp; Fitting Ltd.

Customer's ref. no. : - -

Address : Flat A1, 4/F., Galaxy Factory Building, 25 Luk Hop Street, San Po Kong, Kowloon, H. K. Contract no. : - -

Job title : - -

Sample description : Basket Type Strainer

Nominal pressure (PN) : 16

Manufacturer : Yoshitake Works (Thailand) Ltd.

Brand name : Yoshitake

Body marking :  (DN)

Model no. : SU-50H

Origin : Thailand

Sample submitted by : Gate Way Valve &amp; Fitting Ltd.

**Laboratory test results**

Date of sample received : 10 January 2022

Date of test : 18 January 2022

Specimen no.	220110-2240-001	220110-2240-002	220110-2240-003	220110-2240-004	220110-2240-005	
DN (mm)	50	65	80	100	150	
Ambient temperature (°C)	22.2	22.2	22.2	22.2	22.2	
Measured value of coating thickness at external surface (µm)	1	260	341	348	351	269
	2	337	255	287	348	198
	3	341	333	375	315	197
	4	350	357	384	479	199
	5	346	375	322	360	188
Measured value of coating thickness at internal surface (µm)	6	188	179	324	244	300
	7	253	194	238	316	377
	8	200	232	219	191	275
	9	302	213	228	430	262
	10	335	226	291	263	314
	11	465	232	219	241	267
	12	285	281	225	210	243
	13	272	198	223	175	280
	14	324	200	249	208	233
	15	198	499	206	220	226
Mean	297	274	276	290	255	
Minimum coating thickness (µm)	188	179	206	175	188	
Maximum coating thickness (µm)	465	499	384	479	377	
Standard deviation (µm)	73	90	61	91	52	
Manufacturer requirement (µm)	Minimum coating thickness	min. 100				
	Maximum coating thickness	max. 1500				

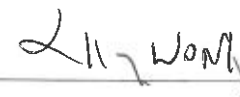
Remark(s) :

1. Test results relate only to the specimen tested.

Checked by : \_\_\_\_\_


**FU HO MAN**  
Assistant Technical Manager

Approved Signatory : \_\_\_\_\_


**WONG KA MAN**  
Senior Manager

## Test Report

Metallic Valves - Shell and Seat Tightness  
(BS EN 12266-1 : 2012 Annex A3 and A4)

Date of issue : 22 February 2022

Page 3 of 5 page(s)

Castco LRN : 220110-2240

Details as supplied by customer

Customer : Gate Way Valve &amp; Fitting Ltd.

Customer's ref. no. : - -

Address : Flat A1, 4/F., Galaxy Factory Building, 25 Luk Hop Street, San Po Kong, Kowloon, H. K. Contract no. : - -

Job title : - -

Sample description : Basket Type Strainer

Nominal pressure (PN) : 16

Manufacturer : Yoshitake Works (Thailand) Ltd.

Brand name : Yoshitake

Body marking :  → (DN)

Model no. : SU-50H

Origin : Thailand

Sample submitted by : Gate Way Valve &amp; Fitting Ltd.

Laboratory test results

Date of sample received : 10 January 2022

Date of test : 19 January 2022

## A) Shell Tightness

Specimen no.	220110-2240-001	220110-2240-002	220110-2240-003	220110-2240-004	220110-2240-005
DN (mm)	50	65	80	100	150
Water temperature (°C)	20.0	20.0	20.0	20.0	20.0
Apply pressure (bar)	24	24	24	24	24
Test duration (s)	60	60	60	60	60
Visually detectable leakage	No	No	No	No	No
Requirement	Visually detectable leakage is not permitted				

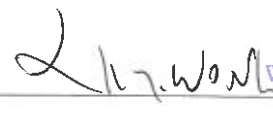
## Remark(s) :

1. Test results relate only to the specimen tested.
2. Test results of sample comply with the requirement of BS EN 12266-1 : 2012 Clause 4 (this specification is not covered by the laboratory's HOKLAS accreditation).
3. For test with qualitative test results, effect of measurement uncertainty has not been taken into account.

Checked by : \_\_\_\_\_

  
**FU HO MAN**  
 Assistant Technical Manager

Approved Signatory : \_\_\_\_\_

  
**WONG KA MAN**  
 Senior Manager

Test Report  
Metallic Materials - Tensile Test of Metallic Materials  
(BS EN ISO 6892-1 : 2009)

Date of issue : 22 February 2022

Page 4 of 5 page(s)

Castco LRN : 220110-2240

**Details as supplied by customer**

Customer : Gate Way Valve & Fitting Ltd.

Customer's ref. no. : --

Address : Flat A1, 4/F., Galaxy Factory Building, 25 Luk Hop Street, San Po Kong, Kowloon, H. K. Contract no. : --

Job title : --

Sample description : Basket Type Strainer

Nominal pressure (PN) : 16

Manufacturer : Yoshitake Works (Thailand) Ltd.

Brand name : Yoshitake

Body marking : (DN)

Model no. : SU-50H

Origin : Thailand

Sample submitted by : Gate Way Valve & Fitting Ltd.

Acceptance standard : BS EN 1563 : 2011 Clause 7.2.1.1 Table 1 (Grade EN-GJS-450-10) and Clause 9.1

**Laboratory test results**

Date of sample received : 19 February 2022

Date of test : 21 February 2022

**Tensile Test**

Specimen no.	DN (mm)	Type & Prepar'n	Specimen length (mm)	Area (mm <sup>2</sup> )	Yield strength (MPa)	Tensile strength (MPa)	Elongation (%)	Position of fracture	Remark
220110-2240-001	50	A, M	150	38.8	345	480	15.0	Valid	--
220110-2240-003	80	A, M	151	38.5	365	467	14.5	Valid	--
220110-2240-005	150	A, M	150	38.6	382	487	14.8	Valid	--

**Remark(s) :**

- A - Proportional; B - Non - proportional; M - Machined; N - Unmachined;  
+ - This measurement is 'invalid' which relates to the position of fracture only.
- The yield strength is determined at 0.2% proof strength.
- Test results relate only to the specimen tested.
- Test results of sample comply with the requirement of BS EN 1563 : 2011 Table 1 (this specification is not covered by the laboratory's HOKLAS accreditation).
- The requirement of BS EN 1563 : 2011 Table 1 : 0.2% proof strength = min. 310MPa; Tensile strength = min. 450MPa; Elongation = min. 10%.
- The acceptance limit is the same as the tolerance limit (simple acceptance, see Figure A). Only test results out of the tolerance/acceptance limit will be concluded as out-of-tolerance.

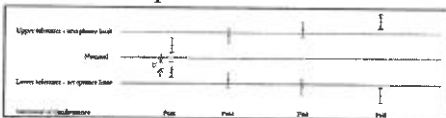


Figure A - Graphical representation of a binary statement - Simple acceptance

**FU HO MAN**  
Assistant Technical Manager

Checked by : \_\_\_\_\_

Approved Signatory :   
**WONG KA MAN**  
Senior Manager

Form no. : ST 6892\_T1(for BC)\_dd\_02/01/2020

Test Report  
Strainers - Dimensions  
(In-house method VAL-STRAINER-DIM)

Date of issue : 22 February 2022

Page 5 of 5 page(s)

Castco LRN : 220110-2240

## Appendix A

220110-2240-001220110-2240-002220110-2240-003220110-2240-004220110-2240-005

End of Report

Form no. : BC\_STRAINERS\_DIM\_IN-HOUSE\_T\_dd\_29/06/2021

香港粉嶺安居街33號得利中心6樓 • 6/F, Techno Centre, 33, On Kui Street, Fanling, Hong Kong.  
香港粉嶺安居街30號新寧中心1樓 • 1/F, Sun Ling Plaza, 30, On Kui Street, Fanling, Hong Kong.  
香港粉嶺安全街29A號 • 29A, On Chuen Street, Fanling, Hong Kong.  
Tel: 2597 8333 Fax: 2597 8399 E-mail: info@castco.com.hk Website: www.castco.com.hk

**Test Report  
Chemical Analysis of Steel**

Date of issue: 04-02-2022

Specimen No.: CHEM-220111-2235-001

Page 1 of 2

Castco LRN: 220111-2235

**Details as supplied by customer**

Name of Customer : Gate Way Valve & Fitting Limited

Address : Flat A1, 4/F, Galaxy Pty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title : --

Contract No. : --

Customer's Ref. No. : --

**Sample details as supplied by customer**

Date Sampled : --

Sample Description : DN50 Basket Type Strainer (Screen)

Specification : BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Specimen No. : 220110-2240-001

Sample Identification No. : -- / Model No. : SU-50H / Origin : Thailand

Manufacturer : Yoshitake Works (Thailand) Ltd. / Brand name: Yoshitake

**Test Method(s):-**

- 1) BS EN ISO 15350 : 2010
- 2) ST-Multi-1(ICP-OES)
- 3) BS EN ISO 15351: 2010

**Remark(s):**

- I. Test results only relate to the specimen tested.

Checked by :

  
Lau Hiu Yat  
Assistant Technical Manager

Approved Signatory :

  
Cheng Chi Fai  
Senior Manager



**Test Report  
Chemical Analysis of Steel**Date of issue: 04-02-2022  
Page 2 of 2Specimen No.: CHEM-220111-2235-001  
Castco LRN: 220111-2235**Laboratory test details**Date of Request Confirmed: 11-01-2022 Date of Received by Lab.: 11-01-2022  
Testing Period: 24-01-2022 to 27-01-2022

Chemical Analysis		Result
<sup>1)</sup> Total Carbon Content	C %	0.035
<sup>1)</sup> Total Sulfur Content	S %	0.0029
<sup>2)</sup> Chromium	Cr %	16.91
<sup>2)</sup> Manganese	Mn %	1.32
<sup>2)</sup> Molybdenum	Mo %	2.11
<sup>2)</sup> Nickel	Ni %	10.00
<sup>2)</sup> Phosphorus	P %	0.027
<sup>2)</sup> Silicon	Si %	0.358
<sup>3)</sup> Nitrogen	N %	0.050

**End of Report**

Form No.: CHM Steel-1 T dd 16/12/2015

**Appendix A****Summary of Chemical Analysis of Steel**

Date of issue: 04-02-2022

Specimen No.: CHEM-220111-2235-001

Page 1 of 1

Castco LRN: 220111-2235

Name of Customer: Gate Way Valve &amp; Fitting Limited

Job Title: --

Contract No.: --

Customer's Ref. No.: --

Date of Received by Lab.: 11-01-2022

Testing Period: 24-01-2022 to 27-01-2022

Castco LRN:	220111-2235				
Sample Description :	DN50 Basket Type Strainer (Screen)				
Specimen No. :	220110-2240-001				
Sample Identification No.:	-- / Model No. : SU-50H / Origin : Thailand				
Manufacturer :	Yoshitake Works (Thailand) Ltd. / Brand name: Yoshitake				
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)			Test Results	Within / Exceed limit	
Carbon	C	0.07 max.	%	0.035	Within limit
Sulfur	S	0.015 max.	%	0.0029	Within limit
Chromium	Cr	16.5 to 18.5	%	16.91	Within limit
Manganese	Mn	2.00 max.	%	1.32	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.11	Within limit
Nickel	Ni	10.0 to 13.0	%	10.00	Within limit
Phosphorus	P	0.045 max.	%	0.027	Within limit
Silicon	Si	1.00 max.	%	0.358	Within limit
Nitrogen	N	0.10 max.	%	0.050	Within limit

**Remark(s):**

- I. Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401 (316).

**Test Report**  
**Chemical Analysis of Steel**

Date of issue: 04-02-2022

Specimen No.: CHEM-220111-2236-001

Page 1 of 2

Castco LRN: 220111-2236

**Details as supplied by customer**

Name of Customer : Gate Way Valve & Fitting Limited

Address : Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong

Job Title : --

Contract No. : --

Customer's Ref. No. : --

**Sample details as supplied by customer**

Date Sampled : --

Sample Description : DN80 Basket Type Strainer (Screen)

Specification : BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)

Specimen No. : 220110-2240-003

Sample Identification No. : -- / Model No. : SU-50H / Origin : Thailand

Manufacturer : Yoshitake Works (Thailand) Ltd. / Brand name: Yoshitake


**Test Method(s):-**

- 1) BS EN ISO 15350 : 2010
- 2) ST-Multi-1(ICP-OES)
- 3) BS EN ISO 15351: 2010

**Remark(s):**


- I. Test results only relate to the specimen tested.

Checked by :

  
Lau Hiu Yat

Assistant Technical Manager

Approved Signatory :

  
Cheng Chi Fai

Senior Manager

**Test Report**  
**Chemical Analysis of Steel**Date of issue: 04-02-2022  
Page 2 of 2Specimen No.: CHEM-220111-2236-001  
Castco LRN: 220111-2236**Laboratory test details**Date of Request Confirmed: 11-01-2022 Date of Received by Lab.: 11-01-2022  
Testing Period: 24-01-2022 to 27-01-2022

Chemical Analysis		Result
<sup>1)</sup> Total Carbon Content	C %	0.035
<sup>1)</sup> Total Sulfur Content	S %	0.0029
<sup>2)</sup> Chromium	Cr %	16.87
<sup>2)</sup> Manganese	Mn %	1.31
<sup>2)</sup> Molybdenum	Mo %	2.07
<sup>2)</sup> Nickel	Ni %	10.01
<sup>2)</sup> Phosphorus	P %	0.028
<sup>2)</sup> Silicon	Si %	0.362
<sup>3)</sup> Nitrogen	N %	0.050

**End of Report**

Form No.: CHM Steel-1 T dd 16/12/2015

## Appendix A

## Summary of Chemical Analysis of Steel

Date of issue: 04-02-2022

Specimen No.: CHEM-220111-2236-001

Page 1 of 1

Castco LRN: 220111-2236

Name of Customer: Gate Way Valve &amp; Fitting Limited

Job Title: --

Contract No.: --

Customer's Ref. No.: --

Date of Received by Lab.: 11-01-2022

Testing Period: 24-01-2022 to 27-01-2022

Castco LRN:	220111-2236				
Sample Description :	DN80 Basket Type Strainer (Screen)				
Specimen No. :	220110-2240-003				
Sample Identification No.:	-- / Model No. : SU-50H / Origin : Thailand				
Manufacturer :	Yoshitake Works (Thailand) Ltd. / Brand name: Yoshitake				
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)			Test Results	Within / Exceed limit	
Carbon	C	0.07 max.	%	0.035	Within limit
Sulfur	S	0.015 max.	%	0.0029	Within limit
Chromium	Cr	16.5 to 18.5	%	16.87	Within limit
Manganese	Mn	2.00 max.	%	1.31	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.07	Within limit
Nickel	Ni	10.0 to 13.0	%	10.01	Within limit
Phosphorus	P	0.045 max.	%	0.028	Within limit
Silicon	Si	1.00 max.	%	0.362	Within limit
Nitrogen	N	0.10 max.	%	0.050	Within limit

**Remark(s):**

- I. Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401 (316).

**Test Report  
Chemical Analysis of Steel**Date of issue: 04-02-2022  
Page 1 of 2Specimen No.: CHEM-220111-2237-001  
Castco LRN: 220111-2237**Details as supplied by customer**

Name of Customer : Gate Way Valve & Fitting Limited  
Address : Flat A1, 4/F, Galaxy Fty Bldg, 25-27 Luk Hop Street, San Po Kong, Kowloon, Hong Kong  
Job Title : --  
Contract No. : --  
Customer's Ref. No. : --

**Sample details as supplied by customer**

Date Sampled : --  
Sample Description : DN150 Basket Type Strainer (Screen)  
Specification : BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)  
Specimen No. : 220110-2240-005  
Sample Identification No. : -- / Model No. : SU-50H / Origin : Thailand  
Manufacturer : Yoshitake Works (Thailand) Ltd. / Brand name: Yoshitake


**Test Method(s):-**

- 1) BS EN ISO 15350 : 2010
- 2) ST-Multi-1(ICP-OES)
- 3) BS EN ISO 15351: 2010

**Remark(s):**

I. Test results only relate to the specimen tested.

Checked by : \_\_\_\_\_

  
Lau Hiu Yat  
Assistant Technical Manager

Approved Signatory : \_\_\_\_\_

  
Cheng Chi Fai  
Senior Manager

**Test Report**  
**Chemical Analysis of Steel**Date of issue: 04-02-2022  
Page 2 of 2Specimen No.: CHEM-220111-2237-001  
Castco LRN: 220111-2237**Laboratory test details**Date of Request Confirmed: 11-01-2022 Date of Received by Lab.: 11-01-2022  
Testing Period: 24-01-2022 to 27-01-2022

Chemical Analysis		Result
1) Total Carbon Content	C %	0.036
1) Total Sulfur Content	S %	0.0027
2) Chromium	Cr %	16.92
2) Manganese	Mn %	1.31
2) Molybdenum	Mo %	2.07
2) Nickel	Ni %	10.01
2) Phosphorus	P %	0.028
2) Silicon	Si %	0.355
3) Nitrogen	N %	0.050

**End of Report**

Form No.: CHM Steel-1 T d.d 16/12/2015

## Appendix A

## Summary of Chemical Analysis of Steel

Date of issue: 04-02-2022

Specimen No.: CHEM-220111-2237-001

Page 1 of 1

Castco LRN: 220111-2237

Name of Customer: Gate Way Valve &amp; Fitting Limited

Job Title: --

Contract No.: --

Customer's Ref. No.: --

Date of Received by Lab.: 11-01-2022

Testing Period: 24-01-2022 to 27-01-2022

Castco LRN:	220111-2237				
Sample Description :	DN150 Basket Type Strainer (Screen)				
Specimen No. :	220110-2240-005				
Sample Identification No.:	-- / Model No. : SU-50H / Origin : Thailand				
Manufacturer :	Yoshitake Works (Thailand) Ltd. / Brand name: Yoshitake				
Specification: BS EN 10088-1:2014, Table 2, Grade 1.4401 (316)			Test Results	Within / Exceed limit	
Carbon	C	0.07 max.	%	0.036	Within limit
Sulfur	S	0.015 max.	%	0.0027	Within limit
Chromium	Cr	16.5 to 18.5	%	16.92	Within limit
Manganese	Mn	2.00 max.	%	1.31	Within limit
Molybdenum	Mo	2.00 to 2.50	%	2.07	Within limit
Nickel	Ni	10.0 to 13.0	%	10.01	Within limit
Phosphorus	P	0.045 max.	%	0.028	Within limit
Silicon	Si	1.00 max.	%	0.355	Within limit
Nitrogen	N	0.10 max.	%	0.050	Within limit

**Remark(s):**

- I. Test results only relate to the specimen tested.
- II. Test results of the specimen are in compliance with the chemical requirements of BS EN 10088-1:2014, Table 2, Grade 1.4401 (316).