

4404 Haygood St - Houston, TX 77022 Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Material:

A/SA105 09

Item 6

Description Quantity 50 2 3M TEE S

A/SA105

Chemical Composition

Ladle

Product

CR CU MN 0.11 0.20 SI

0.018 Carbon Equivalency:

Ladle

79,484

Tensile PSI

0.022 0.26

0.38

Yield PSI

53,640

1.03

Elong % 30.35

MO

0.040

RA % 62.75

NB

0.002

Hardness 156 BHN

0.009

162 BHN

AS FORGED

1.

IN ACCORDANCE WITH NACE SPEC MR0175-2009

Sold To: PLESA STEEL INC

12700 NORTHBOROUGH

DRIVE SUITE 646

MTR#:

278,249

PO #: 231

Sales Order #: C001408335

Date: 06/26/2014

Certified Material Test Report

Heat Code: 58751

NI

0.08

Date: 06/26/2014

159 BHN

Sold To: PLESA STEEL INC

DRIVE SUITE 646

278,249

MTR#:

PO#: 231

Sales Order #: C001408335

Heat Code: 58852

12700 NORTHBOROUGH

Certified Material Test Report



Manufacturer of Piping and Pressure Vessel Components

4404 Haygood St - Houston, TX 77022 Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Material: A/SA105 09

Item Quantity Description 5 50 13M TEE S A/SA105

Chemical Composition

Ladle C CR CU MN NB NI 0.207 0.05 0.008 0.09 1,02 0.015 0.03 0.006 S SI

> 0.022 0.21 0.004

Carbon Equivalency: Ladle 0.40

Tensile PSI Yield PSI Elong % RA% Hardness

Product 83,014 52,417 29.80 60.19 156 BHN

AS FORGED

1.

Date: 06/26/2014

Sold To: PLESA STEEL INC

DRIVE

MTR#:

PO #:

Sales Order #: C001408335

Heat Code: 59132

SUITE 646

278,249

231

12700 NORTHBOROUGH

Certified Material Test Report



Manufacturer of Piping and Pressure Vessel Components

4404 Haygood St - Houston, TX 77022 Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Material:

A/SA105 11

Item 3

Quantity Description

2 3M 45EL S

A/SA105

Chemical Composition

Ladle

С CR CU MN MO ΝB 0.190 0.04 1.03 0.008 0.03 0.007 0.06 0.016 S

SI v 0.021 0.21 0.004

Carbon Equivalency:

0.38 Ladle

Tensile PSI 79,922 Product

Yield PSI 50,679 Elong % 31.60 RA % 61.58

Hardness 147 BHN

147 BHN

AS FORGED

1.



4404 Haygood St - Houston, TX 77022 Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Material: A/SA105 13

Item Description Quantity

2 11/2 3000 HOT-DIP 90EL T 50

A/SA105

DRIVE **SUITE 646** 

Sold To: PLESA STEEL INC

MTR#: 278,249

> PO #: 231

Sales Order #: C001408335

Date: 06/26/2014

Certified Material Test Report

12700 NORTHBOROUGH

Heat Code: 59192

Chemical Composition

C CR CU MN ΜO NB Ladle NI 0.200 0.03 0.06 1.15 0.006 0.014 0.03 0.005 s SI V

0.005 0.018 0.17

Carbon Equivalency: Ladle 0.41

Tensile PSI Yield PSI Elong % RA % Hardness 78,580 49,424 Product 29.05 59.85 141 BHN 144 BHN

AS FORGED

1.

Date: 06/26/2014

Sold To: PLESA STEEL INC

DRIVE **SUITE 646** 

278,249

231

MTR #:

PO #:

Heat Code: 59195

Sales Order #: C001408335

12700 NORTHBOROUGH

Certified Material Test Report



Manufacturer of Piping and Pressure Vessel Components

4404 Haygood St - Houston, TX 77022 Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Material: A/SA105 11

Description Item Quantity

2 3000 HOT-DIP 90EL T

A/SA105

1

Chemical Composition

С CR CU MN MO NI Ladle 0.005 0.01 0.004 0.020 0.190 0.03 0.05 1.03

sI

0.004 0.21

Carbon Equivalency: 0.37 Ladle

Tensile PSI Yield PSI Elong % RA% Hardness

76,342 48,811 61.83 139 BHN BHN Product 33.20 141

AS FORGED

1.



4404 Haygood St - Houston, TX 77022 Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Material:

A/SA105 11

Item 7

Ladle

Description Quantity 23M TEE T 30

A/SA105

Chemical Composition

C

S

CR CU 0.200 0.04 0.05 SI 0.21 0.004 0.019

Carbon Equivalency:

Ladle

Tensile PSI

77,987

Yield PSI 49,126

Elong % 32.90

MO

0.005

MN

1.04

0.39

RA% 59.46

NB

0.012

Hardness 139 BHN

0.004

139 BHN

AS FORGED

1.

Product

IN ACCORDANCE WITH NACE SPEC MR0175-2009

Sold To: PLESA STEEL INC

12700 NORTHBOROUGH

DRIVE **SUITE 646** 

MTR#: 278,249

> PO #: 231

Sales Order #: C001408335

Date: 06/26/2014

Certified Material Test Report

Heat Code: 59341

NI

0.04



4404 Haygood St - Houston, TX 77022 Phone: 713-695-3633 Fax: 713-695-3528

A Bonney Forge Company

This product has not come in direct contact with mercury or any of its compounds, nor with any mercury-containing device employing a single boundary of containment. No welding performed.

We certify that the contents of this report are correct and accurate, and that all test results and operations performed by WFI or its subcontractors are in compliance with the material specification and requirements of the referenced code or standard, and that the material conforms to the dimensional requirements of the order. This document is in accordance with EN10204 3.1.

Material:

A/SA105 13

Item 4

Quantity Description

50

11/2X11/2X 1/2 3M TEE T

A/SA105

Chemical Composition

Ladle

Product

CR MN 0.03 0.210 0.07 1.03 S SI v 0.21 0.022 0.001

Carbon Equivalency:

Ladle

0.40

Tensile PSI 80,652 Yield PSI 50,669 Elong % 31.70

MO

0.015

RA% 60,44

NB

0.014

Hardness

141 BHN

0.005

AS FORGED

1.

IN ACCORDANCE WITH NACE SPEC MR0175-2009

Sold To: PLESA STEEL INC

12700 NORTHBOROUGH

DRIVE SUITE 646

MTR #:

278,249

PO #: 231

Sales Order #: C001408335

Date: 06/26/2014

141 BHN

Certified Material Test Report

Heat Code: 59396

NI

0.02