

**MILL TEST CERTIFICATE**  
**CERTIFICADO DE PRUEBAS EN FABRICA**

Number / Número:

**15027324**

Page / Página:

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Date / Día: **July 10, 2015**

|  |                                      |  |  |   |
|--|--------------------------------------|--|--|---|
| Customer / Cliente: <b>PLESA ANAHUAC Y CIAS. S.A. DE C.V.</b>  |                                      | Customer's Order Item / Orden Cliente - Item:<br><b>20614 ITEM 1</b>                           | Customer's Reference / Ref. del Cliente:<br><b>N/A</b>                         | Manufacturer's Works Order N° / Confirmación de Venta:<br><b>234321/01</b>  |
| Manufacturing Process / Proceso de Manufactura:<br><b>SEAMLESS HOT ROLLED</b><br><b>LAMINADO EN CALIENTE SIN COSTURA</b>               |                                      | Product Type / Tipo de Producto:<br><b>LINE PIPE SEAMLESS</b><br><b>CONDUCCION SIN COSTURA</b> |  | Surface / Superficie:<br><b>VARNISHED</b><br><b>BARNIZADO</b>               |
| Standard or Specification / Normas o Especificaciones:<br><b>API 5L ED45/DECEMBER 2012, ASTM A106/14, ASTM A53/12, ASME SA106/2013</b> |                                      |  | Steel Grade / Grado de acero:<br><b>B/X42-L245/L290 PSL1</b>                   | Ends / Extremos:<br><b>NORMAL BEVEL</b><br><b>BISELADO NORMAL</b>           |
| Dimensions / Dimensiones:<br><b>12.750 X 0.688 INCH</b><br><b>323.9 X 17.5 MM</b>  | Schedule / Cédula:<br><b>SCH 080</b> | Length / Longitud:<br><b>39.37 / 41.01 FT</b><br><b>12.00 / 12.50 MTS</b>                      | Quantity / Cantidad: <b>4 Pcs/Pz</b><br><b>163.648 FT</b><br><b>49.880 MTS</b> | Nominal Weight / Peso Nominal:<br><b>14612.251 LB</b><br><b>6628.000 KG</b> |

**TENSILE TEST / ENSAYO DE TENSION**

| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | Specimen condition<br>Condición de la probeta |    |              |     | Specimen dimensions<br>Dimensiones de la probeta |                        | Test temp.<br>Temp. ensayo | Y.S.<br>Eul 0.50 %<br>Min: 290<br>Max: -- | U.T.S.<br>Req.<br>Min: 415<br>Max: -- | Y.S./U.T.S.<br>Req. Max.<br>-- | Elongation / Alargamiento |      |      |
|----------------------|-------------------------|---|----|--------------|-----|--|------------------------|----------------------------|---|---------------------------------------|--------------------------------|---------------------------|------|------|
|                      |                         | Ls  | Sc | Type<br>Tipo | Ori | Size<br>Tamaño<br>mm                             | Area<br>Sección<br>mm2 |                            |   |                                       |                                | Lo                        | Min. | Obt. |
|                      |                         |   |    |              |     |  |                        |                            |   |                                       |                                |                           |      |      |
| 77642                | 04335                   | B   | AM | Ss           | L   | 38.47 X 16.53                                    | 635.91                 | RT                         | 341                                       | 524                                   | 0,65                           | 50,8                      | 31,1 | 47,0 |

AM: As manufactured / Según proceso de fabricación  
 B Body / Cuerpo  
 L Longitudinal / Longitudinal  
 Lo: Initial length / Longitud inicial

Ls: Location of sample / Ubicación de la muestra  
 Max Maximum / Máximo  
 Min Minimum / Mínimo  
 Obt Obtained / Obtenido

Ori: Orientation / Orientación  
 Req. Max: Required maximum / Máximo requerido  
 Req Required / Requerido  
 RT Room temperature / Temperatura ambiente

Sc: Specimen condition / Condición de la probeta  
 Ss: Strip specimen / Muestra rectangular  
 U.T.S: Ultimate tensile strength / Resistencia  
 Y.S: Yield strength / Fluencia

**CHEMICAL COMPOSITION / COMPOSICION QUIMICA**

| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | P | Composition % / Composición % |    |     |    |     |        |    |     |    |    |     |     |    |    |    |         |    |    |       |        |       |       |   |
|----------------------|-------------------------|---|-------------------------------|----|-----|----|-----|--------|----|-----|----|----|-----|-----|----|----|----|---------|----|----|-------|--------|-------|-------|---|
|                      |                         |   | X 100                         |    |     |    |     | X 1000 |    |     |    |    |     |     |    |    |    | X 10000 |    |    | X 100 |        |       |       |   |
|                      |                         |   | C                             | Mn | Si  | Mo | Cr  | P      | S  | V   | Nb | Ni | Cu  | Sn  | Al | Ti | As | B       | Ca | N  | Ce. 1 | Col. 1 | Col 2 | Col 3 |   |
|                      |                         | H | Max                           | 28 | 120 | -- | 15  | 40     | 30 | 30  | 80 | -- | 400 | 400 | -- | -- | -- | --      | -- | -- | 15    | 100    | 6     |       |   |
|                      |                         | H | Min                           | -- | 29  | 10 | --  | --     | -- | --  | -- | -- | --  | --  | -- | -- | -- | --      | -- | -- | 15    | 100    | 6     |       |   |
| 77642                | 00001                   | H | Max                           | 28 | 120 | -- | 15  | 40     | 30 | 30  | 80 | -- | 400 | 400 | -- | -- | -- | --      | -- | -- | 15    | 100    | 6     |       |   |
| 77642                | 04335                   | P | Max                           | 28 | 120 | -- | 15  | 40     | 30 | 30  | 80 | -- | 400 | 400 | -- | -- | -- | --      | -- | -- | 15    | 100    | 6     |       |   |
|                      |                         | H | Min                           | -- | 29  | 10 | --  | --     | -- | --  | -- | -- | --  | --  | -- | -- | -- | --      | -- | -- | 15    | 100    | 6     |       |   |
| 77642                | 00001                   | H |                               | 19 | 87  | 19 | 2.3 | 9      | 7  | 2   | 0  | 0  | 70  | 129 | 10 | 19 | 0  | 4       | 0  | 12 | 61    | 37     | 0     | 31.2  | 0 |
| 77642                | 04335                   | P |                               | 20 | 86  | 18 | 2.5 | 10     | 7  | 1.3 | 0  | 0  | 70  | 122 | 10 | 22 | 0  | 3       | 0  | 16 | 67    | 38     | 0     | 31.7  | 0 |

This certificate is issued by a computerized system and it is valid with electronic signature. On the original certificate the trade-mark green colored "Tenaris" is stamped. In case the owner of the original certificate would release a copy of it, he must attest its conformity to the original one taking upon himself the responsibility for any unlawful or not allowed use. Any alteration and/or falsification will be subjected to the law.

Este certificado se emite mediante sistema computarizado y es validado con firma electrónica. El certificado original posee impreso el logo Tenaris color verde. En caso de que el poseedor del certificado entregue una copia, deberá garantizar la conformidad con el original haciéndolo responsable por cualquier uso ilegal o indebido. Cualquier alteración y/o falsificación estará sujeta a la ley.

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Date / Día: **July 10, 2015**

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| Standard or Specification / Normas o Especificaciones:<br><b>API 5L ED45/DECEMBER 2012, ASTM A106/14, ASTM A53/12, ASME SA106/2013</b> |  |  |  | Steel Grade / Grado de acero:<br><b>B/X42-L245/L290 PSL1</b>        |  | Nominal Weight / Peso Nominal:<br><b>88.71 LB/FT<br/>132.05 KG/MT</b>   |  |
| Dimensions / Dimensiones:<br><b>12.750 X 0.688 INCH<br/>323.9 X 17.5 MM</b>  |  | Schedule / Cédula:<br><b>SCH 080</b>   |  | Length / Longitud:<br><b>39.37 / 41.01 FT<br/>12.00 / 12.50 MTS</b> |  | Quantity / Cantidad: <b>4 Pcs/Pz</b><br><b>163.648 FT                      14612.251 LB<br/>49.880 MTS                      6628.000 KG</b> |  |

**CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA**

|                      |                         | Composition % / Composición % |    |     |    |     |        |    |     |    |    |         |     |    |    |    |       |    |    |       |        |        |        |    |
|----------------------|-------------------------|-------------------------------|----|-----|----|-----|--------|----|-----|----|----|---------|-----|----|----|----|-------|----|----|-------|--------|--------|--------|----|
|                      |                         | X 100                         |    |     |    |     | X 1000 |    |     |    |    | X 10000 |     |    |    |    | X 100 |    |    |       |        |        |        |    |
|                      |                         | C                             | Mn | Si  | Mo | Cr  | P      | S  | V   | Nb | Ni | Cu      | Sn  | Al | Ti | As | B     | Ca | N  | Ce. 1 | Col. 1 | Col. 2 | Col. 3 |    |
| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | H Max                         | 28 | 120 | -- | 15  | 40     | 30 | 30  | 80 | -- | 400     | 400 | -- | -- | -- | --    | -- | -- | --    | 15     | 100    | 6      |    |
|                      |                         | H Min                         | -- | 29  | 10 | --  | --     | -- | --  | -- | -- | --      | --  | -- | -- | -- | --    | -- | -- | --    | --     | --     | --     | -- |
| 77642                | 04336                   | P Max                         | 28 | 120 | -- | 15  | 40     | 30 | 30  | 80 | -- | 400     | 400 | -- | -- | -- | --    | -- | -- | --    | 15     | 100    | 6      |    |
|                      |                         | P Min                         | -- | 29  | 10 | --  | --     | -- | --  | -- | -- | --      | --  | -- | -- | -- | --    | -- | -- | --    | --     | --     | --     | -- |
|                      |                         | P                             | 20 | 86  | 18 | 2.5 | 10     | 7  | 1.5 | 0  | 0  | 70      | 123 | 10 | 22 | 0  | 3     | 0  | 13 | 67    | 38     | 0      | 31.8   | 0  |

Ce 1 Carbon equivalent/Carbono equivalente

Col 2 SUMA Mo+Cr+Ni+Cu+V

H: Heat / Colada

Min: Minimum / Mínimo

Col 1 SUMA Nb+V+Ti

Col 3 SUMA Nb+V

Max Maximum / Máximo

P: Product / Producto

**THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR**

| Required values / Valores requeridos |                         | Individuals / Individuales |           |         | Average / Promedio |                 |         | Hardness type/Tipo de dureza:HRC |      |      |      |      |      |      |      |      |      |      |      |     |  |  |  |
|--------------------------------------|-------------------------|----------------------------|-----------|---------|--------------------|-----------------|---------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|-----|--|--|--|
|                                      |                         | Min. --                    | Max. 22.0 | Var. -- | Min. --            | Max. --         | Var. -- | OD                               |      |      |      | MW   |      |      |      | ID   |      |      |      | Var |  |  |  |
| Heat N°<br>Colada N°                 | Sample N°<br>Muestra N° | Specimen condition         |           |         | Quad               | Scale<br>Escala |         |                                  |      |      |      |      |      |      |      |      |      |      |      |     |  |  |  |
|                                      |                         | Ls                         |           |         | Sc                 |                 | 1       | 2                                | 3    | Avg. | 1    | 2    | 3    | Avg. | 1    | 2    | 3    | Avg. |      |     |  |  |  |
| 77642                                | 04335                   | B                          |           |         | AM                 | 1               | HRBW    | 81.0                             | 81.0 | 81.2 | 81.1 | 82.2 | 82.6 | 83.1 | 82.6 | 82.1 | 82.2 | 82.6 | 82.3 | 1.5 |  |  |  |
| 77642                                | 04336                   | B                          |           |         | AM                 | 1               | HRBW    | 78.4                             | 78.6 | 78.6 | 78.5 | 79.5 | 79.7 | 79.7 | 79.6 | 79.4 | 79.4 | 78.5 | 79.1 | 1.1 |  |  |  |

AM As manufactured / Según proceso de fabricación

ID Internal diameter / Diámetro interno

Min Minimum / Mínimo

Quad: Quadrant / Cuadrante

Avg Average / Promedio

Ls. Location of sample / Ubicación de la muestra

MW Middle wall / Centro

Sc: Specimen condition / Condición de la probeta

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| Date / Día: July 10, 2015  |                                     |                                |

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**HEAT TREATMENT / TRATAMIENTO TÉRMICO**

|   |              |
|---|--------------|
| Heat treatment / Tratamiento térmico: Pipe / Tubo   |              |
| Quench media of heat treatment process / Medio de enfriamiento del tratamiento térmico: n/a |              |
| Temperature Scale / Escala de Temperatura: n/a  |              |
|   | Type<br>Tipo |
| asrolled  |              |

**SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA**

| Supplementary Information<br>Información Suplementaria   |   |
|--|---|
| Manufactured by TenarisTamsa<br>Steel making process<br>Electric Arc Furnace-Ladle Furnace-Continuous Casting Machine.<br>Fully Killed Steel<br>Material free from Mercury contamination<br>Not repaired by welding<br>Non destructive test Satisfactory<br>Inspection method<br>* - EMI - FLVI - MPI -<br>ASTM A106/14, ASTM A53/12, ASME SA106/2013<br>MATERIAL ACCORDING TO NACE MR0175 / ISO 15156-2, 2009 AND NACE MR0103, 2010 ONLY FOR HARDNESS<br>22 HRC MAX | Fabricado por TenarisTamsa<br>Fabricación del acero<br>Horno de Arco Eléctrico-Horno de Afinación-Máquina de Colada Continua.<br>Acero calmado con aluminio<br>Material libre de contaminación de Mercurio<br>No reparado por soldadura<br>Control no destructivo. Satisfactorio<br>Método de inspección<br>* - EMI - FLVI - MPI -<br>ASTM A106/14, ASTM A53/12, ASME SA106/2013<br>MATERIAL DE ACUERDO A NACE MR0175 / ISO 15156-2, 2009 Y NACE MR0103, 2010 SOLO DUREZA MAX 22<br>HRC |

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**SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA**

|  |                   |
|--|-------------------|
| Supplementary Information<br>Información Suplementaria |                   |
| Tamsa Ref: 653585                                      | Tamsa Ref: 653585 |

**SUMMARY REPORT / REPORTE RESUMEN**

| Heat N°<br>Colada N° | Quantity<br>Cantidad<br>(Pieces) | Length<br>Longitud |       | Weight<br>Peso<br>(Tons) |
|----------------------|----------------------------------|--------------------|-------|--------------------------|
|                      |                                  | (ft)               | (m)   |                          |
| 77642                | 4                                | 163.65             | 49.88 | 6.628                    |

| Average length per pipe<br>Longitud promedio por tubo |       | Nominal weight per pipe<br>Peso nominal por tubo |         |
|---|-------|--|---------|
| (ft)  | (m)   | (lb/ft)  | (kg/m)  |
| 40.913  | 12.47 | 89.29  | 132.879 |

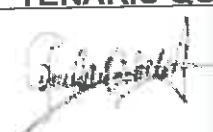

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This is to certify that the product described here has been manufactured, sampled, tested, and inspected in accordance with purchaser order requirements. This certificate is not a declaration of origin nor may it be used as a declaration of origin. Por el presente certificamos que el material aquí descrito ha sido fabricado, muestreado, ensayado e inspeccionado de acuerdo a los requisitos de su orden de compra. Este certificado no es, ni puede ser usado, como una declaración de origen.

|  |  |   |   |
|--|--|---|---|
|  | <b>CUSTOMER . THIRD PARTY</b>  | <b>TENARIS QUALITY DEPARTMENT SIGNATURE</b>   |   |
|  | INSPECTION COMPANY<br>COMPAÑÍA DE INSPECCIÓN<br><br>NO APLICA<br>Employee Name: <b>N/A</b> | <br><br>QUALITY CERTIFICATION DEPT.<br>DEPTO. DE CERTIFICACIÓN DE CALIDAD<br>Teresa M Castellá Abraham | <br><br>CHIEF OF QUALITY CERTIFICATION DEPT.<br>RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD<br>Angel César Alemán Gil |

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