

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

Number / Número: **14024603**  
 Page / Página: **1 / 6**  
 Date / Día: **May 02, 2014**

|  |  |  |  |   |  |   |  |
|--|--|--|--|---|--|---|--|
| Customer / Cliente: <b>TUBERIA Y VALVULAS DEL NORTE, S.A. DE C.V.</b>  |  | Customer's Order Item / Orden Cliente - Item:<br><b>N/A</b>                                    |  | Customer's Reference / Ref. del Cliente:<br><b>N/A</b>                  |  | Manufacturer's Works Order N° / Confirmación de Venta:<br><b>216819/01</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>           |  | Ends / Extremos:<br><b>NORMAL BEVEL</b><br><b>BISELADO NORMAL</b>   |  |
| Standard or Specification / Normas o Especificaciones:<br><b>API 5L ED45/JULY 2013, ASTM A106/11, ASTM A53/12, ASME SA106/2010</b> |  |  |  | Steel Grade / Grado de acero:<br><b>B/X42-L245/L290 PSL1</b>            |  |   |  |
| Dimensions / Dimensiones:<br><b>6.625 X 0.432 INCH</b><br><b>168.3 X 11 MM</b>   |  | Schedule / Cédula:<br><b>SCH 080 / W.C XS</b>  |  | Length / Longitud:<br><b>19.69 / 21.33 FT</b><br><b>6.00 / 6.50 MTS</b> |  | Quantity / Cantidad: <b>55 Pcs/Pz</b><br><b>1162.927 FT</b> <b>33468.403 LB</b><br><b>354.460 MTS</b> <b>15181.000 KG</b> |  |
|  |  |  |  |   |  | Nominal Weight / Peso Nominal:<br><b>28.60 LB/FT</b><br><b>42.67 KG/M</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<br>°C | Y.S.<br>Euf 0.50 %. |                     | U.T.S.<br>Req   |    | Y.S./U.T.S. |      |    | Elongation / Alargamiento |   |     |
|----------------------|-------------------------|---|----|--------------|-----|--|------------------------|----------------------------------|---------------------|---------------------|-----------------|----|-------------|------|----|---------------------------|---|-----|
|                      |                         | Ls  | Sc | Type<br>Tipo | Ori | Size<br>Tamaño<br>mm                             | Area<br>Sección<br>mm2 |                                  | Min: 290<br>Max: -- | Min: 415<br>Max: -- | Req. Max.<br>-- | Lo | Min.        | Obt. | in | %                         | % |     |
|                      |                         |   |    |              |     |  |                        |                                  |                     |                     |                 |    |             |      |    |                           |   | MPa |
| 7874                 | 96717                   | B   | AM | Ss           | L   | 25.62 X 10.73                                    | 274,90                 | RT                               | 315                 | 495                 | 0,64            | 2  | 26.3        | 40.0 |    |                           |   |     |

|  |  |   |  |
|--|--|---|--|
| AM: As manufactured / Según proceso de fabricación | Ls: Location of sample / Ubicación de la muestra | Ori: Orientation / Orientación                | Sc: Specimen condition / Condición de la probeta |
| B: Body / Cuerpo                                   | Max: Maximum / Máximo                            | Req. Max: Required maximum / Máximo requerido | Ss: Strip specimen / Muestra rectangular         |
| L: Longitudinal / Longitudinal                     | Min: Minimum / Mínimo                            | Req: Required / Requerido                     | U.T.S: Ultimate tensile strength / Resistencia   |
| Lo: Initial length / Longitud inicial              | Obt: Obtained / Obtenido                         | RT: Room temperature / Temperatura ambiente   | Y.S: Yield strength / Fluencia                   |

**CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA**

| Heat N°<br>Colada N° |       | Sample N°<br>Muestra N° |     | Composition % / Composición % |     |    |     |    |        |     |    |    |     |     |    |    |    |    |         |    |    |        |        |        |
|----------------------|-------|-------------------------|-----|-------------------------------|-----|----|-----|----|--------|-----|----|----|-----|-----|----|----|----|----|---------|----|----|--------|--------|--------|
|                      |       |                         |     | x 100                         |     |    |     |    | x 1000 |     |    |    |     |     |    |    |    |    | x 10000 |    |    |        |        |        |
|                      |       |                         |     | C                             | Mn  | Si | Mo  | Cr | P      | S   | V  | Nb | Ni  | Cu  | Sn | Al | Ti | As | B       | Ca | N  | Col. 1 | Col. 2 | Col. 3 |
| 7874                 | 00001 | H                       | Max | 28                            | 120 | -- | 15  | 40 | 30     | 30  | 80 | -- | 400 | 400 | -- | -- | -- | -- | --      | -- | 15 | 100    | 6      |        |
|                      |       |                         | Min | --                            | 29  | 10 | --  | -- | --     | --  | -- | -- | --  | --  | -- | -- | -- | -- | --      | -- | -- | --     | --     | --     |
| 7874                 | 96717 | P                       | Max | 28                            | 120 | -- | 15  | 40 | 30     | 30  | 80 | -- | 400 | 400 | -- | -- | -- | -- | --      | -- | 15 | 100    | 6      |        |
|                      |       |                         | Min | --                            | 29  | 10 | --  | -- | --     | --  | -- | -- | --  | --  | -- | -- | -- | -- | --      | -- | -- | --     | --     | --     |
| 7874                 | 00001 | H                       |     | 18                            | 76  | 29 | 1   | 6  | 6      | 3   | 1  | 1  | 30  | 71  | 6  | 21 | 2  | 2  | 1       | 13 | 63 | 0.4    | 17.2   | 0.2    |
| 7874                 | 96717 | P                       |     | 18                            | 74  | 26 | 1.4 | 6  | 6      | 1.9 | 0  | 0  | 30  | 69  | 4  | 23 | 0  | 2  | 0       | 7  | 69 | 0      | 17.3   | 0      |

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FOR03171

6"

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

Number / Número: **14024603**  
 Page / Página: **2 / 6**  
 Date / Día: **May 02, 2014**

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|--|---|--|---|---|
| Customer / Cliente: <b>TUBERIA Y VALVULAS DEL NORTE, S.A. DE C.V.</b>  |   | Customer's Order Item / Orden Cliente - Item: <b>N/A</b>                                       | Customer's Reference / Ref. del Cliente: <b>N/A</b>                               | Manufacturer's Works Order N° / Confirmación de Venta: <b>216819/01</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/JULY 2013, ASTM A106/11, ASTM A53/12, ASME SA106/2010</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>6.625 X 0.432 INCH</b><br><b>168.3 X 11 MM</b>   | Schedule / Cédula:<br><b>SCH 080 / W.C XS</b> | Length / Longitud:<br><b>19.69 / 21.33 FT</b><br><b>6.00 / 6.50 MTS</b>                        | Quantity / Cantidad: <b>55 Pcs/Pz</b><br><b>1162.927 FT</b><br><b>354.460 MTS</b> | Weight / Peso Nominal:<br><b>33468.403 LB</b><br><b>15181.000 KG</b>    |

**CHEMICAL COMPOSITION / COMPOSICION QUIMICA**

|                      |                         | 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  | Col 1 | Col 2 | Col 3 |    |
| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | P                             | Max | 28 | 120 | -- | 15     | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | --      | -- | -- | --    | 15    | 100   | 6  |
|                      |                         |                               | Min | -- | 29  | 10 | --     | -- | -- | -- | -- | -- | --  | --  | -- | -- | --      | -- | -- | --    | --    | --    | -- |
| 7874                 | 96718                   | P                             | Max | 28 | 120 | -- | 15     | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | --      | -- | -- | --    | 15    | 100   | 6  |
|                      |                         |                               | Min | -- | 29  | 10 | --     | -- | -- | -- | -- | -- | --  | --  | -- | -- | --      | -- | -- | --    | --    | --    | -- |

Col. 1: SUMA Nb+V+Ti      Col. 3: SUMA Nb+V      Max: Maximum / Máximo      P: Product / Producto  
 Col. 2: SUMA Mo+Cr+Ni+Cu+V      H: Heat / Colada      Min: Minimum / Mínimo

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

| Required values      |                         | Individuals / Individuales |           |         | Average / Promedio |                 |         | Hardness type/Tipo de dureza:HRC |      |      |      |      |      |      |      |      |      |      |      |      |
|----------------------|-------------------------|----------------------------|-----------|---------|--------------------|-----------------|---------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Valores requeridos   |                         | 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 | 1       | 2                                | 3    | Avg. | 1    | 2    | 3    | Avg. | 1    | 2    | 3    | Avg. | Var. |      |
| 7874                 | 96717                   | B                          |           |         | 1                  | HRBW            | 72.0    | 71.3                             | 70.9 | 71.4 | 72.6 | 73.3 | 73.5 | 73.1 | 73.0 | 73.7 | 73.8 | 73.5 | 2.1  |      |
| 7874                 | 96718                   | B                          |           |         | 1                  | HRBW            | 78.5    | 78.8                             | 79.4 | 78.9 | 77.3 | 78.4 | 77.6 | 77.8 | 75.5 | 74.8 | 75.6 | 75.3 | 3.6  |      |

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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| Manufacturing Process / Proceso de Manufactura:<br>SEAMLESS HOT ROLLED<br>LAMINADO EN CALIENTE SIN COSTURA                  |  | Product Type / Tipo de Producto:<br>LINE PIPE SEAMLESS<br>CONDUCCION SIN COSTURA |  | Surface / Superficie:<br>VARNISHED<br>BARNIZADO                     |
| Standard or Specification / Normas o Especificaciones:<br>API 5L ED45/JULY 2013, ASTM A106/11, ASTM A53/12, ASME SA106/2010 |  |  | Steel Grade / Grado de acero:<br>B/X42-L245/L290 PSL1  | Ends / Extremos:<br>NORMAL BEVEL<br>BISELADO NORMAL                 |
| Dimensions / Dimensiones:<br>6.625 X 0.432 INCH<br>168.3 X 11 MM  | Schedule / Cédula:<br>SCH 080 / W.C XS | Length / Longitud:<br>19.69 / 21.33 FT<br>6.00 / 6.50 MTS                        | Quantity / Cantidad: 55 Pcs/Pz<br>1162.927 FT<br>33468.403 LB<br>354.460 MTS<br>15181.000 KG | Nominal Weight / Peso Nominal:<br>28.60 LB/FT<br>42.67 KG/M         |

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

|                  |                       |   |                            |
|------------------|-----------------------|---|----------------------------|
| B: Body / Cuerpo | Max: Maximum / Máximo | OD: Outside diameter / Diámetro externo | Var: Variation / Variación |
|------------------|-----------------------|---|----------------------------|

**FLATTENING TEST / ENSAYO DE APLASTAMIENTO**

| Standard / Norma     |                         |                     |
|----------------------|-------------------------|---------------------|
| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | Result<br>Resultado |
| 7874                 | 96718                   | Good / Buena        |

**HYDROSTATIC TEST / PRUEBA HIDRÁULICA**

| Pressure / Presión |               | Time / Tiempo      | Results / Resultado          |
|--------------------|---------------|--------------------|------------------------------|
| Unit / Unidad      | Value / Valor | Seconds / Segundos |                              |
| mpa                | 20.5          | 5                  | Satisfactory / Satisfactorio |

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**HEAT TREATMENT / TRATAMIENTO TERMICO**

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

**SUPPLEMENTARY INFORMATION / INFORMACION SUPLEMENTARIA**

| Supplementary Information / 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 A106/11, ASTM A53/12, ASME SA106/2010<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 A106/11, ASTM A53/12, ASME SA106/2010<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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| Manufacturing Process / Proceso de Manufactura:<br>SEAMLESS HOT ROLLED<br>LAMINADO EN CALIENTE SIN COSTURA                  |  | Product Type / Tipo de Producto:<br>LINE PIPE SEAMLESS<br>CONDUCCION SIN COSTURA |  | Surface / Superficie:<br>VARNISHED<br>BARNIZADO                     |
| Standard or Specification / Normas o Especificaciones:<br>API 5L ED45/JULY 2013, ASTM A106/11, ASTM A53/12, ASME SA106/2010 |  |  | Steel Grade / Grado de acero:<br>B/X42-L245/L290 PSL1  | Ends / Extremos:<br>NORMAL BEVEL<br>BISELADO NORMAL                 |
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**SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA**

|  |                   |
|--|-------------------|
| Supplementary Information<br>Información Suplementaria |                   |
| Tamsa Ref: 543373                                      | Tamsa Ref: 543373 |

**SUMMARY REPORT / REPORTE RESUMEN**

| Heat N°<br>Cofada N° | Quantity<br>Cantidad<br>(Pieces) | Length<br>Longitud |        | Weight<br>Peso<br>(Tons) |
|----------------------|----------------------------------|--------------------|--------|--------------------------|
|                      |                                  | (ft)               | (m)    |                          |
| 7874                 | 55                               | 1,162.93           | 354.46 | 15.181                   |

| Average length per pipe<br>Longitud promedio por tubo |       | Nominal weight per pipe<br>Peso nominal por tubo |        |
|---|-------|--|--------|
| (ft)  | (m)   | (lb/ft)  | (kg/m) |
| 21.144  | 6.445 | 28.779   | 42.829 |



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| Customer / Cliente: TUBERIA Y VALVULAS DEL NORTE, S.A. DE C.V.  |  | Customer's Order Item / Orden Cliente - Item:<br>N/A                             |  | Customer's Reference / Ref. del Cliente:<br>N/A           |  | Manufacturer's Works Order N° / Confirmación de Venta:<br>216819/01  |  |
| Manufacturing Process / Proceso de Manufactura:<br>SEAMLESS HOT ROLLED<br>LAMINADO EN CALIENTE SIN COSTURA                  |  | Product Type / Tipo de Producto:<br>LINE PIPE SEAMLESS<br>CONDUCCION SIN COSTURA |  |   |  | Surface / Superficie:<br>VARNISHED<br>BARNIZADO  |  |
| Standard or Specification / Normas o Especificaciones:<br>API 5L ED45/JULY 2013, ASTM A106/11, ASTM A53/12, ASME SA106/2010 |  |  |  | Steel Grade / Grado de acero:<br>B/X42-L245/L290 PSL1     |  | Ends / Extremos:<br>NORMAL BEVEL<br>BISELADO NORMAL  |  |
| Dimensions / Dimensiones:<br>6.625 X 0.432 INCH<br>168.3 X 11 MM  |  | Schedule / Cédula:<br>SCH 080 / W.C XS   |  | Length / Longitud:<br>19.69 / 21.33 FT<br>6.00 / 6.50 MTS |  | Quantity / Cantidad: 55 Pcs/Pz<br>1162.927 FT                      33468.403 LB<br>354.460 MTS                      15181.000 KG |  |
|   |  |  |  |   |  | Nominal Weight / Peso Nominal:<br>28.60 LB/FT<br>42.67 KG/M  |  |

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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. |
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|  | <b>CUSTOMER . THIRD PARTY</b>   | <b>TENARIS QUALITY DEPARTMENT SIGNATURE</b>  |  |
|  | INSPECTION COMPANY<br>COMPAÑIA DE INSPECCIÓN<br><br>Company Name: N/A<br>Employee Name: N/A | <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>Rafael Gutiérrez de Velasco Magallanes |

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| 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 haciéndose responsable por cualquier uso ilegal o indebido. Cualquier alteración y/o falsificación estará sujeta a la ley. |
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