

|  |                                     |                                |
|--|-------------------------------------|--------------------------------|
| <b>INSPECTION CERTIFICATE 3.1</b><br>CERTIFICADO DE INSPECCIÓN 3.1<br>EN 10204 3.1: 2004 | Number / Número:<br><b>17030219</b> | Page / Página:<br><b>1 / 5</b> |
| Date / Día: <b>June 06, 2017</b>   |                                     |                                |

|  |  |  |  |   |  |  |  |
|--|--|--|--|---|--|--|--|
| Customer / Cliente: <b>PLESA ANAHUAC Y CIA. S.A. DE C.V.</b>   |  | Customer's Order Item / Orden Cliente - ítem:<br><b>25111 ITEM 4</b>                           |  | Customer's Reference / Ref. del Cliente:<br><b>N/A</b>                  |  | Manufacturer's Works Order N° / Confirmación de Venta:<br><b>249457/04</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>SEAMLESS LINE PIPE</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 BD45/DECEMBER 2012, ASTM A106/15, ASTM A53/12, ASME SA106/2015</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>14.000 X 0.5 INCH</b><br><b>355.6 X 12.7 MM</b>  |  | Schedule / Cédula:<br><b>SCH 000 / 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>5 Pcs/Pz</b><br><b>101.870 FT</b> <b>7398.720 LB</b><br><b>31.050 MTS</b> <b>3356.000 KG</b> |  |
| Nominal Weight / Peso Nominal:<br><b>72.16 LB/FT</b><br><b>107.40 KG/M</b>   |  |  |  |   |  |  |  |

### TENSILE TEST / ENSAYO DE TENSIÓN

| 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.        |        | U.T.S. |           | Elongation / Alargamiento |      |      |
|----------------------|-------------------------|---|----|--------------|-----|--|-----------------|---------------------------|-------------|--------|--------|-----------|---------------------------|------|------|
|                      |                         | Ls  | Sc | Type<br>Tipo | Ori | Size<br>Tamaño                                   | Area<br>Sección |                           | Eul 0.50 %. |        | Req.   | Req. Max. | Lo                        | Min. | Obt. |
|                      |                         |   |    |              |     |  |                 |                           | Min: 290    | Max: - |        |           |                           |      |      |
|                      |                         |   |    |              |     |  |                 |                           |             |        |        |           |                           |      |      |
|                      |                         |   |    |              |     |  |                 |                           |             |        |        |           |                           |      |      |
| 82933                | 57602                   | B   | AM | Ss           | L   | 38.5 X 11.95                                     | 460.08          | RT                        | 348         | 511    | 0.68   | 50.8      | 29.1                      | 39.0 |      |

|  |  |   |  |
|--|--|---|--|
| 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

|                      |                         | 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° | H Max                         | 28 | 120 | -  | 15  | 40     | 30 | 30  | 80 | -  | 400 | 400 | -  | -  | -  | -       | 10 | -     | -      | 15     | 100    | 6 |
|                      |                         | H Min                         | -  | 29  | 10 | -   | -      | -  | -   | -  | -  | -   | -   | -  | -  | -  | -       | -  | -     | -      | -      | -      | - |
| Heat N°<br>Colada N° | Sample N°<br>Muestra N° | P Max                         | 28 | 120 | -  | 15  | 40     | 30 | 30  | 80 | -  | 400 | 400 | -  | -  | -  | -       | 10 | -     | -      | 15     | 100    | 6 |
|                      |                         | P Min                         | -  | 29  | 10 | -   | -      | -  | -   | -  | -  | -   | -   | -  | -  | -  | -       | -  | -     | -      | -      | -      | - |
| 82933                | 00001                   | H                             | 19 | 82  | 22 | 5.1 | 6      | 10 | 1.8 | 0  | 0  | 50  | 114 | 9  | 24 | 0  | 4       | 0  | 11    | 52     | 0      | 27.5   | 0 |
| 82933                | 57602                   | P                             | 19 | 82  | 22 | 5   | 6      | 10 | 2.3 | 0  | 0  | 40  | 113 | 8  | 23 | 0  | 4       | 0  | 12    | 55     | 0      | 26.3   | 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 haciéndose responsable por cualquier uso ilegal o indebido. Cualquier alteración y/o falsificación estará sujeta a la ley.

**INSPECTION CERTIFICATE 3.1**  
**CERTIFICADO DE INSPECCIÓN 3.1**  
**EN 10204 3.1: 2004**

Number / Número: **17030219** Page / Página: **2 / 5**  
 Date / Día: **June 06, 2017**

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|--|---|--|--|---|--|---|--|
| Customer / Cliente: <b>PLESA ANAHUAC Y CIAS. S.A. DE C.V.</b>  |   | Customer's Order Item / Orden Cliente - Ítem: <b>25111 ITEM 4</b>                        |  | Customer's Reference / Ref. del Cliente: <b>N/A</b>         |  | Manufacturer's Works Order Nº / Confirmación de Venta: <b>249457/04</b> |  |
| Manufacturing Process / Proceso de Manufactura:<br><b>SEAMLESS HOT ROLLED<br/>LAMINADO EN CALIENTE SIN COSTURA</b>                     |   | Product Type / Tipo de Producto:<br><b>SEAMLESS LINE PIPE<br/>CONDUCCION SIN COSTURA</b> |  | Surface / Superficie:<br><b>VARNISHED<br/>BARNIZADO</b>     |  |   |  |
| Standard or Specification / Normas o Especificaciones:<br><b>API 5L ED45/DECEMBER 2012, ASTM A106/15, ASTM A53/12, ASME SA106/2015</b> |   | Steel Grade / Grado de acero:<br><b>B/X42-L245/L290 PSL1</b>                             |  | Ends / Extremos:<br><b>NORMAL BEVEL<br/>BISELADO NORMAL</b> |  |   |  |
| Dimensions / Dimensiones:<br><b>14.000 X 0.5 INCH<br/>355.6 X 12.7 MM</b>  | Schedule / Cédula:<br><b>SCH 000 / W.C XS</b> | Length / Longitud:<br><b>19.69 / 21.33 FT<br/>6.00 / 6.50 MTS</b>                        | Quantity / Cantidad: <b>5 Pcs/Pz</b><br><b>101.870 FT 7398.720 LB<br/>31.050 MTS 3356.000 KG</b> |   | Nominal Weight / Peso Nominal:<br><b>72.16 LB/FT<br/>107.40 KG/M</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     | Col. 1 | Col. 2 | Col. 3 |      |   |
| H         | Max        | 28                            | 120 | —  | 15  | 40 | 30     | 30 | 80 | —   | 400 | 400 | —  | —   | —  | —  | 10      | —  | —     | 15     | 100    | 6      |      |   |
|           | Min        | —                             | 29  | 10 | —   | —  | —      | —  | —  | —   | —   | —   | —  | —   | —  | —  | —       | —  | —     | —      | —      | —      |      |   |
| Heat Nº   | Sample Nº  | P                             | Max | 28 | 120 | —  | 15     | 40 | 30 | 30  | 80  | —   | —  | —   | —  | —  | 10      | —  | —     | 15     | 100    | 6      |      |   |
| Colada Nº | Muestra Nº |                               | Min | —  | 29  | 10 | —      | —  | —  | —   | —   | —   | —  | —   | —  | —  | —       | —  | —     | —      | —      | —      |      |   |
| 82933     | 57603      | P                             |     | 19 | 81  | 22 | 4.9    | 6  | 9  | 2.2 | 0   | 0   | 40 | 112 | 8  | 23 | 0       | 4  | 0     | 12     | 54     | 0      | 26.1 | 0 |

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**

| Heat Nº   | Sample Nº  | Required values | Individuals / Individuales |           |         | Average / Promedio |         |         | Hardness type/Tipo de dureza:HRC |      |      |      |      |      |      |      |      |      |      |     |      |  |  |  |
|-----------|------------|-----------------|----------------------------|-----------|---------|--------------------|---------|---------|----------------------------------|------|------|------|------|------|------|------|------|------|------|-----|------|--|--|--|
|           |            |                 | Min: --                    | Max: 22.0 | Var: -- | Min: --            | Max: -- | Var: -- | OD                               |      |      |      | MW   |      |      |      | ID   |      |      |     | Var. |  |  |  |
| Colada Nº | Muestra Nº |                 | Specimen condition         |           |         | Quad               | Scale   |         |                                  |      |      |      |      |      |      |      |      |      |      |     |      |  |  |  |
|           |            |                 | Ls                         | Sc        |         |                    | Escala  | 1       | 2                                | 3    | Avg. | 1    | 2    | 3    | Avg. | 1    | 2    | 3    | Avg. |     |      |  |  |  |
| 82933     | 57602      |                 | B                          | AM        |         | 1                  | HRBW    | 78.4    | 78.0                             | 78.0 | 78.1 | 78.1 | 78.7 | 78.6 | 78.5 | 78.3 | 78.5 | 77.6 | 78.1 | 0.4 |      |  |  |  |
| 82933     | 57603      |                 | B                          | AM        |         | 1                  | HRBW    | 78.6    | 79.2                             | 79.2 | 79.0 | 79.3 | 79.2 | 78.9 | 79.1 | 78.8 | 78.7 | 78.7 | 78.7 | 0.4 |      |  |  |  |

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><b>SEAMLESS HOT ROLLED<br/>LAMINADO EN CALIENTE SIN COSTURA</b>                     |   | Product Type / Tipo de Producto:<br><b>SEAMLESS LINE PIPE<br/>CONDUCCION SIN COSTURA</b> |  | Surface / Superficie:<br><b>VARNISHED<br/>BARNIZADO</b>                 |
| Standard or Specification / Normas o Especificaciones:<br><b>API 5L ED45/DECEMBER 2012, ASTM A106/15, ASTM A53/12, ASME SA106/2015</b> |   | Steel Grade / Grado de acero:<br><b>B/X42-L245/L290 PSL1</b>                             |  | Ends / Extremos:<br><b>NORMAL BEVEL<br/>BISELADO NORMAL</b>             |
| Dimensions / Dimensiones:<br><b>14.000 X 0.5 INCH<br/>355.6 X 12.7 MM</b>  | Schedule / Cédula:<br><b>SCH 000 / W.C XS</b> | Length / Longitud:<br><b>19.69 / 21.33 FT<br/>6.00 / 6.50 MTS</b>                        | Quantity / Cantidad: <b>5 Pcs/Pz</b><br><b>101.870 FT                      7398.720 LB<br/>31.050 MTS                      3356.000 KG</b> | Nominal Weight / Peso Nominal:<br><b>72.16 LB/FT<br/>107.40 KG/M</b>    |

**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° | Ls | Sc | Result<br>Resultado |
| 82933                | 57603                   | B  | AM | Good / Bueno        |

|  |                  |  |  |
|--|------------------|--|--|
| AM: As manufactured / Según proceso de fabricación | B: Body / Cuerpo | Ls: Location of sample / Ubicación de la muestra | Sc: Specimen condition / Condición de la probeta |
|--|------------------|--|--|

**HYDROSTATIC TEST / PRUEBA HIDRÁULICA**

| Pressure / Presión |               | Time / Tiempo      | Results / Resultado          |
|--------------------|---------------|--------------------|------------------------------|
| Unit / Unidad.     | Value / Valor | Seconds / Segundos |                              |
| mpa                | 17.9          | 5                  | Satisfactory / Satisfactorio |

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**HEAT TREATMENT / TRATAMIENTO TÉRMICO**

|  |              |
|--|--------------|
| Heat treatment / Tratamiento térmico: <b>Pipe / Tubo</b>   | Type<br>Tipo |
| 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>  | asrolled     |

**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>MATERIAL ACCORDING TO NACE MR0175 / ISO 15156-2, 2009 AND NACE MR0103, 2010 ONLY FOR HARDNESS<br>22 HRC MAX.<br>Tamsa Ref: 876896 | 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><b>Control no destructivo. Satisfactorio</b><br>Método de inspección<br>. - EMI - FLVI - MPI -<br>MATERIAL DE ACUERDO A NACE MR0175 / ISO 15156-2, 2009 Y NACE MR0103, 2010 SOLO DUREZA MAX. 22<br>HRC<br>Tamsa Ref: 876896 |

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**SUMMARY REPORT / REPORTE RESUMEN**

| Heat N°<br>Colada N° | Quantity<br>Cantidad<br>(Pieces) | Length<br>Longitud |       | Weight<br>Peso<br>(Tons) |
|----------------------|----------------------------------|--------------------|-------|--------------------------|
|                      |                                  | (ft)               | (m)   |                          |
| 82933                | 5                                | 101.87             | 31.05 | 3.356                    |

| Average length per pipe<br>Longitud promedio por tubo |      | Nominal weight per pipe<br>Peso nominal por tubo |         |
|---|------|--|---------|
| (ft)  | (m)  | (lb/ft)  | (kg/m)  |
| 20.374  | 6.21 | 72.629   | 108.084 |

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.

**CUSTOMER . THIRD PARTY**

INSPECTION COMPANY  
COMPAÑIA DE INSPECCIÓN

NO APLICA  
Employee Name: N/A

**TENARIS QUALITY DEPARTMENT SIGNATURE**



QUALITY CERTIFICATION DEPT.  
DEPTO. DE CERTIFICACIÓN DE CALIDAD  
Roberto Carlos Pulido Corte



CHIEF OF QUALITY CERTIFICATION DEPT.  
RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD  
Angel César Alemán Gil

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.