

CERTIFICADO DE PRUEBAS EN FABRICA
 CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número: **11026614** Page / Página: **1 / 5**
 Date / Día: **June 23, 2011**

| | | | | |
|--|----------------------------------|--|--|--|
| Customer / Cliente: PLESA ANAHUAC Y CIAS, S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: N/A | Customer's Reference / Ref. del Cliente: N/A | Manufacturer's Works Order N° / Confirmación de Venta: 160391/01 |
| Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | Product Type / Tipo de Producto: LINE PIPE SEAMLESS CONDUCCION SIN COSTURA | | Surface / Superficie: VARNISHED BARNIZADO |
| Standard or Specification / Normas o Especificaciones: API 5L/ASTM A106/ASME SA106/ASTM A53, ABRIL 1, 1995/99/1995-A95/99B | | | Steel Grade / Grado de acero: B/X42 | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL |
| Dimensions / Dimensiones: 18 X 0.438 INCH 457 X 11.1 MM | Schedule / Cédula: 030 | Length / Longitud: 36.09 / 39.37 FT 11.00 / 12.00 MTS | Quantity / Cantidad: 4 Pcs/Pz | Nominal Weight / Peso Nominal: N/A |

TENSILE TEST / ENSAYO DE TENSION

| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition Condición de la probeta | | | | Specimen dimensions Dimensiones de la probeta | | Test temp Temp. ensayo °C | Y.S. | U.T.S. | Y.S./U.T.S | Elongation / Alargamiento | | |
|----------------------|-------------------------|---|----|--------------|-----|--|------------------------------------|---------------------------------|----------------------------|----------------------------|-----------------|---------------------------|------|------|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño mm | Area Sección mm ² | | Eul 0.50 % | Req. | Req. Max. -- | Lo | Min. | Obt. |
| | | | | | | | | | Min: 289 Max: -- mpa | Min: 413 Max: -- mpa | | | | |
| 11731 | 20871 | B | AM | Ss | T | 37.7 X 11.00 | 414,70 | RT | 306 | 512 | 0,60 | 2 | 28.6 | 43.0 |
| 11731 | 20872 | B | AM | Ss | T | 37.7 X 10.70 | 403,39 | RT | 346 | 515 | 0,67 | 2 | 28.5 | 42.0 |
| 11822 | 20869 | B | AM | Ss | T | 37.6 X 10.80 | 406,08 | RT | 345 | 508 | 0,68 | 2 | 28.5 | 43.0 |
| 11822 | 20870 | B | AM | Ss | T | 37.6 X 10.70 | 402,32 | RT | 342 | 512 | 0,67 | 2 | 28.5 | 38.0 |

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

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.

CERTIFICADO DE PRUEBAS EN FABRICA
CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número: Page / Página:

11026614 **2 / 5**

Date / Día: **June 23, 2011**

| | | | | | | | |
|--|--|---|--|--|--------------------------------------|--|--|
| Customer / Cliente: PLESA ANAHUAC Y CIAS, S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: N/A | | Customer's Reference / Ref. del Cliente: N/A | | Manufacturer's Works Order N° / Confirmación de Venta: 160391/01 | |
| Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | | Product Type / Tipo de Producto: LINE PIPE SEAMLESS CONDUCCION SIN COSTURA | | | Surface / Superficie: VARNISHED BARNIZADO | |
| Standard or Specification / Normas o Especificaciones: API 5L/ASTM A106/ASME SA106/ASTM A53, ABRIL 1, 1995/99/1995-A95/99B | | | | Steel Grade / Grado de acero: B/X42 | | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL | |
| Dimensions / Dimensiones: 18 X 0.438 INCH 457 X 11.1 MM | | Schedule / Cédula: 030 | Length / Longitud: 36.09 / 39.37 FT 11.00 / 12.00 MTS | | Quantity / Cantidad: 4 Pcs/Pz | | Nominal Weight / Peso Nominal: N/A |

CHEMICAL COMPOSITION / COMPOSICION QUIMICA

| | | Composition % / Composición % | | | | | | | | | | | | | | | | | | | | | | |
|-----------|------------|-------------------------------|-----|----|-----|----|--------|-----|-----|----|-----|----|-----|----|----|----|---------|----|----|--------|--------|--------|------|---|
| | | X 100 | | | | | X 1000 | | | | | | | | | | X 10000 | | | X 100 | | | | |
| | | C | Mn | Si | Cr | Mo | S | P | Ni | V | Cu | Al | Sn | As | Nb | Ti | Ca | B | N | Col. 1 | Col. 2 | Col. 3 | | |
| Heat N° | Sample N° | H | Max | 28 | 135 | -- | 40 | 15 | 30 | 30 | 400 | 80 | 400 | -- | -- | -- | 40 | -- | -- | -- | 100 | 15 | | |
| | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Colada N° | Muestra N° | P | Max | 28 | 135 | -- | 40 | 15 | 30 | 30 | 400 | 80 | 400 | -- | -- | -- | 40 | -- | -- | -- | 100 | 15 | | |
| | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 11731 | 00001 | H | | 19 | 82 | 20 | 9 | 2.6 | 3.3 | 12 | 60 | 0 | 136 | 20 | 9 | 4 | 0 | 0 | 19 | 0 | 61 | 0 | 31.2 | 0 |
| 11731 | 20871 | P | | 20 | 80 | 20 | 9 | 2.5 | 5 | 12 | 60 | 0 | 138 | 17 | 9 | 4 | 0 | 0 | 15 | 0 | 61 | 0 | 31.3 | 0 |
| 11731 | 20872 | P | | 20 | 80 | 20 | 9 | 2.6 | 4.9 | 13 | 60 | 0 | 139 | 19 | 9 | 4 | 0 | 0 | 18 | 0 | 61 | 0 | 31.5 | 0 |
| 11822 | 00001 | H | | 18 | 83 | 17 | 4 | 1.8 | 5 | 8 | 50 | 0 | 129 | 18 | 8 | 4 | 0 | 0 | 29 | 0 | 73 | 0 | 23.7 | 0 |
| 11822 | 20869 | P | | 20 | 81 | 17 | 4 | 1.8 | 7 | 9 | 50 | 0 | 129 | 16 | 7 | 3 | 0 | 0 | 21 | 0 | 73 | 0 | 23.7 | 0 |
| 11822 | 20870 | P | | 19 | 80 | 18 | 4 | 1.8 | 6.1 | 9 | 50 | 0 | 129 | 16 | 8 | 3 | 0 | 0 | 17 | 0 | 73 | 0 | 23.7 | 0 |

Col. 1: SUMA Nb+V Col. 3: SUMA Nb+V+Ti 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 HRC | | | | | | | | | | |
|--------------------|-----------|----------------------------|-----------|---------|--------------------|---------|---------|-------------------|------|------|------|------|------|------|------|------|------|------|
| Valores requeridos | | Min: -- | Max: 22.0 | Var: -- | Min: -- | Max: -- | Var: -- | Tipo de dureza | | | | | | | | | | |
| Heat N° | Sample N° | Specimen condition | | Quad. | Scale | OD | | | | MW | | | | ID | | | | Var. |
| | | LS | Sc | | | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | |
| 11731 | 20871 | B | AM | 1 | HRBW | 76.3 | 76.1 | 75.8 | 76.1 | 76.6 | 75.4 | 76.4 | 76.1 | 76.6 | 75.1 | 75.6 | 75.8 | 0.4 |

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.

| | | |
|---|------------------|----------------|
| CERTIFICADO DE PRUEBAS EN FABRICA CERTIFICADO DE PRUEBAS EN FABRICA | Number / Número: | Page / Página: |
| | 11026614 | 3 / 5 |
| Date / Día: June 23, 2011 | | |

| | | | | |
|--|----------------------------------|--|---|---|
| Customer / Cliente: PLESA ANAHUAC Y CIAS, S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: | Customer's Reference / Ref. del Cliente: | Manufacturer's Works Order N° / Confirmación de Venta: |
| | | N/A | N/A | 160391/01 |
| Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | Product Type / Tipo de Producto: LINE PIPE SEAMLESS CONDUCCION SIN COSTURA | | Surface / Superficie: VARNISHED BARNIZADO |
| Standard or Specification / Normas o Especificaciones: API 5L/ASTM A106/ASME SA106/ASTM A53, ABRIL 1, 1995/99/1995-A95/99B | | | Steel Grade / Grado de acero: B/X42 | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL |
| Dimensions / Dimensiones: 18 X 0.438 INCH 457 X 11.1 MM | Schedule / Cédula: 030 | Length / Longitud: 36.09 / 39.37 FT 11.00 / 12.00 MTS | Quantity / Cantidad: 4 Pcs/Pz | Nominal Weight / Peso Nominal: N/A |

THROUGH WALL HARDNESS / DUREZA EN EL ESPESOR

| Required values | | Individuals / Individuales | | | | | | Average / Promedio | | | | Hardness type HRC | | | | | | |
|----------------------|-------------------------|----------------------------|----|-----------|-----------------|---------|------|--------------------|------|---------|------|-------------------|------|----------------|------|------|------|------|
| Valores requeridos | | Min: -- | | Max: 22.0 | | Var: -- | | Min: -- | | Max: -- | | Var: -- | | Tipo de dureza | | | | |
| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition | | Quad. | Scale Escala | OD | | | | MW | | | | ID | | | | Var. |
| | | Ls | Sc | | | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | |
| 11731 | 20872 | B | AM | 1 | HRBW | 76.2 | 76.9 | 76.9 | 76.7 | 76.0 | 75.8 | 75.3 | 75.7 | 76.2 | 76.1 | 75.9 | 76.1 | 1.0 |
| 11822 | 20869 | B | AM | 1 | HRBW | 76.1 | 75.7 | 76.2 | 76.0 | 75.5 | 75.7 | 75.7 | 75.6 | 76.1 | 75.2 | 76.4 | 75.9 | 0.4 |
| 11822 | 20870 | B | AM | 1 | HRBW | 75.3 | 75.0 | 76.8 | 75.7 | 76.5 | 76.9 | 76.5 | 76.6 | 75.0 | 75.6 | 76.5 | 75.7 | 0.9 |

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

FLATTENING TEST / ENSAYO DE APLASTAMIENTO

| Standard / Norma: | | | Standard / Norma: | | | Standard / Norma: | | | Standard / Norma: | | |
|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|
| Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado |
| 11731 | 20871 | Good / Bueno | 11731 | 20872 | Good / Bueno | 11822 | 20869 | Good / Bueno | 11822 | 20870 | Good / Bueno |

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.

| | | |
|---|-------------------------------------|--------------------------------|
| CERTIFICADO DE PRUEBAS EN FABRICA CERTIFICADO DE PRUEBAS EN FABRICA | Number / Número: 11026614 | Page / Página: 4 / 5 |
| Date / Día: June 23, 2011 | | |

| | | | | |
|--|----------------------------------|--|--|--|
| Customer / Cliente: PLESA ANAHUAC Y CIAS, S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: N/A | Customer's Reference / Ref. del Cliente: N/A | Manufacturer's Works Order N° / Confirmación de Venta: 160391/01 |
| Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | Product Type / Tipo de Producto: LINE PIPE SEAMLESS CONDUCCION SIN COSTURA | | Surface / Superficie: VARNISHED BARNIZADO |
| Standard or Specification / Normas o Especificaciones: API 5L/ASTM A106/ASME SA106/ASTM A53, ABRIL 1, 1995/99/1995-A95/99B | | | Steel Grade / Grado de acero: B/X42 | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL |
| Dimensions / Dimensiones: 18 X 0.438 INCH 457 X 11.1 MM | Schedule / Cédula: 030 | Length / Longitud: 36.09 / 39.37 FT 11.00 / 12.00 MTS | Quantity / Cantidad: 4 Pcs/Pz | Nominal Weight / Peso Nominal: N/A |

HYDROSTATIC TEST / PRUEBA HIDRAULICA

| Pressure / Presión | | Time / Tiempo | Results / Resultado |
|--------------------|---------------|--------------------|------------------------------|
| Unit / Unidad. | Value / Valor | Seconds / Segundos | |
| psi | 1,740 | 5 | Satisfactory / Satisfactorio |

HEAT TREATMENT / TRATAMIENTO TERMICO

| | |
|---|--------------|
| Heat treatment / Tratamiento térmico: Pipe / Tubo | |
| Quench media of heat treatment process / Medio de enfriamiento del tratamiento térmico: Water / Agua | |
| Temperature Scale / Escala de Temperatura: celcius | |
| | Type Tipo |
| asrolled | |

SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

| Supplementary Information Información Suplementaria | |
|---|--|
| Manufactured by TenarisTamsa Steel making process: Electric Arc Furnace-Ladle Furnace-Ingots. Fully Killed Steel | Fabricado por TenarisTamsa Fabricación del acero: Horno de Arco Eléctrico-Horno de Afinación-Lingotes. Acero calmado con aluminio |

| | |
|---|---|
| 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. |
|---|---|

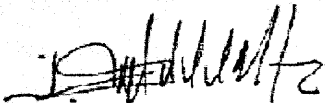
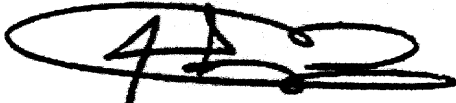
| | | |
|---|-------------------------------------|--------------------------------|
| CERTIFICADO DE PRUEBAS EN FABRICA CERTIFICADO DE PRUEBAS EN FABRICA | Number / Número: 11026614 | Page / Página: 5 / 5 |
| | Date / Día: June 23, 2011 | |

| | | | | |
|--|----------------------------------|--|--|--|
| Customer / Cliente: PLESA ANAHUAC Y CIAS, S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: N/A | Customer's Reference / Ref. del Cliente: N/A | Manufacturer's Works Order N° / Confirmación de Venta: 160391/01 |
| Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | Product Type / Tipo de Producto: LINE PIPE SEAMLESS CONDUCCION SIN COSTURA | | Surface / Superficie: VARNISHED BARNIZADO |
| Standard or Specification / Normas o Especificaciones: API 5L/ASTM A106/ASME SA106/ASTM A53, ABRIL 1, 1995/99/1995-A95/99B | | | Steel Grade / Grado de acero: B/X42 | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL |
| Dimensions / Dimensiones: 18 X 0.438 INCH 457 X 11.1 MM | Schedule / Cédula: 030 | Length / Longitud: 36.09 / 39.37 FT 11.00 / 12.00 MTS | Quantity / Cantidad: 4 Pcs/Pz | Nominal Weight / Peso Nominal: N/A |

SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

| Supplementary Information Información Suplementaria | |
|---|--|
| Material free from Mercury contamination Not repaired by welding Non destructive test. Satisfactory Inspection method * - EMI - FLVI - MPI - MATERIAL ACCORDING TO NACE MR0175-2003 Tamsa Ref: 133805 | Material libre de contaminación de Mercurio No reparado por soldadura Control no destructivo. Satisfactorio Método de inspección * - EMI - FLVI - MPI - MATERIAL DE ACUERDO A NACE MR0175-2003 Tamsa Ref: 133805 |

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 | TENARIS QUALITY DEPARTMENT SIGNATURE | |
|--|---|--|---|
| | INSPECTION COMPANY COMPAÑIA DE INSPECCIÓN Company Name: N/A Employee Name: N/A |  QUALITY CERTIFICATION DEPT. DEPTO. DE CERTIFICACIÓN DE CALIDAD Israel de la Cruz Martínez |  CHIEF OF QUALITY CERTIFICATION DEPT. RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD Ricardo Lozano Armenta |

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.