

MILL TEST CERTIFICATE
CERTIFICADO DE PRUEBAS EN FABRICA

Number / Número: **15032993**
 Page / Página: **1 / 6**

Date / Día: **August 25, 2015**

| | | | | |
|--|--|--|--|--|
| Customer / Cliente: PLESA ANAHUAC Y CIAS. S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: 21574 ITEM 2 | Customer's Reference / Ref. del Cliente: N/A | Manufacturer's Works Order N° / Confirmación de Venta: 236167/02 |
| 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 ED45/DECEMBER 2012, ASTM A106/14, ASTM A53/12, ASME SA106/2013 | | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL1 | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL |
| Dimensions / Dimensiones: 6.625 X 0.28 INCH 168.3 X 7.1 MM | Schedule / Cédula: SCH 040 / W.C STD | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | Quantity / Cantidad: 37 Pcs/Pz 784.646 FT 239.160 MTS | Nominal Weight / Peso Nominal: 15097.268 LB 6848.000 KG 28.26 KG/M |

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. Eul 0.50 % Min: 290 Max: -- | U.T.S. Req. Min: 415 Max: -- | Y.S./U.T.S. Req. Max. -- | Elongation / Alargamiento | | |
|----------------------|-------------------------|---|----|--------------|-----|--|------------------------|----------------------------------|---|---------------------------------------|--------------------------------|---------------------------|------|------|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño mm | Area Sección mm2 | | | | | Lo | Min. | Obt. |
| | | | | | | | | | | | | | | |
| 77515 | 04632 | B | AM | Ss | L | 25.71 X 07.08 | 182.03 | RT | 329 | 517 | 0,64 | 50,8 | 24,2 | 34,0 |
| 78106 | 20107 | B | AM | Ss | L | 25.78 X 07.30 | 188,07 | RT | 321 | 511 | 0,63 | 50,8 | 24,4 | 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° Colada N° | Sample N° Muestra N° | H Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| | | H Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Heat N° Colada N° | Sample N° Muestra N° | P Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| | | P Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 77515 | 00001 | H | 20 | 86 | 18 | 3.2 | 5 | 5 | 2.4 | 0 | 0 | 60 | 129 | 12 | 21 | 0 | 4 | 0 | 13 | 52 | 0 | 27.1 | 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.

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| | | | | Nominal Weight / Peso Nominal: 18.99 LB/FT 28.26 KG/M | | | |

CHEMICAL COMPOSITION / COMPOSICIÓN 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 | |
| H | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Heat N° | Sample N° | P | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | -- | 15 | 100 | 6 | |
| Colada N° | Muestra N° | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 77515 | 04632 | P | 19 | 87 | 17 | 3.5 | 6 | 5 | 1.5 | 0 | 0 | 60 | 127 | 9 | 23 | 0 | 4 | 0 | 9 | 54 | 0 | 28.2 | 0 |
| 77515 | 04633 | P | 20 | 87 | 17 | 3.5 | 6 | 5 | 1.7 | 0 | 0 | 60 | 128 | 9 | 23 | 0 | 4 | 0 | 12 | 54 | 0 | 28.3 | 0 |
| 78106 | 00001 | H | 20 | 90 | 17 | 1.6 | 4 | 8 | 1.6 | 0 | 0 | 50 | 109 | 10 | 19 | 0 | 4 | 0 | 13 | 54 | 0 | 21.5 | 0 |
| 78106 | 20107 | P | 20 | 91 | 16 | 2 | 4 | 7 | 0.7 | 0 | 0 | 50 | 107 | 9 | 21 | 0 | 3 | 0 | 10 | 60 | 0 | 21.7 | 0 |
| 78106 | 20108 | P | 20 | 91 | 16 | 2 | 4 | 7 | 0.9 | 0 | 0 | 50 | 109 | 8 | 20 | 0 | 3 | 0 | 8 | 57 | 0 | 21.9 | 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

| Required values Valores requeridos | | Individuals / Individuales | | | Average / Promedio | | | Hardness type/Tipo de dureza:HRC | | | |
|---------------------------------------|-------------------------|----------------------------|-----------|---------|--------------------|---------|---------|----------------------------------|------|--|--|
| | | Min: -- | Max: 22.0 | Var: -- | Min: -- | Max: -- | Var: -- | | | | |
| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition | | Quad. | Scale Escala | MW | | | | | |
| | | Ls | Sc | | | 1 | 2 | 3 | Avg. | | |
| 77515 | 04632 | B | | 1 | HRBW | 78.4 | 78.2 | 78.3 | 78.3 | | |
| 77515 | 04633 | B | | 1 | HRBW | 78.0 | 77.8 | 79.1 | 78.3 | | |

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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: -- | | | | | | |
| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition | | Quad. | Scale Escala | MW | | | | | | | |
| | | Ls | Sc | | | 1 | 2 | 3 | Avg. | | | | |
| 78106 | 20107 | B | | 1 | HRBW | 77.3 | 76.7 | 77.6 | 77.2 | | | | |
| 78106 | 20108 | B | | 1 | HRBW | 80.2 | 80.6 | 81.4 | 80.7 | | | | |

| | | | |
|--|--|--|----------------------------|
| AM: As manufactured / Según proceso de fabricación | Ls: Location of sample / Ubicación de la muestra | MW: Middle wall / Centro | Var: Variation / Variación |
| Avg: Average / Promedio | Max: Maximum / Máximo | Quad: Quadrant / Cuadrante | |
| B: Body / Cuerpo | Min: Minimum / Mínimo | Sc: Specimen condition / Condición de la probeta | |

FLATTENING TEST / ENSAYO DE APLASTAMIENTO

| Standard / Norma: | | | Standard / Norma: | | |
|----------------------|-------------------------|---------------------|----------------------|-------------------------|---------------------|
| Heat N° Colada N° | Sample N° Muestra N° | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Result Resultado |
| 77515 | 04633 | Good / Bueno | 78106 | 20108 | Good / Bueno |

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HYDROSTATIC TEST / PRUEBA HIDRAULICA

| Pressure / Presión | | Time / Tiempo | Results / Resultado |
|--------------------|---------------|--------------------|------------------------------|
| Unit / Unidad. | Value / Valor | Seconds / Segundos | |
| mpa | 18.6 | 5 | Satisfactory / Satisfactorio |

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 Tipo |
| asrolled | |

SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

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

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|---|--|
| Material free from Mercury contamination Not repaired by welding Non destructive test. Satisfactory Inspection method . - EMI - FLVI - MPI - MATERIAL ACCORDING TO NACE MR0175 / ISO 15156-2, 2009 AND NACE MR0103, 2010 ONLY FOR HARDNESS 22 HRC MAX. Tamsa Ref: 670121 | 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 / ISO 15156-2, 2009 Y NACE MR0103, 2010 SOLO DUREZA MAX. 22 HRC Tamsa Ref: 670121 |

SUMMARY REPORT / REPORTE RESUMEN

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud (ft) (m) | | Weight Peso (Tons) | Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud (ft) (m) | | Weight Peso (Tons) |
|----------------------|----------------------------------|-------------------------------------|--------|--------------------------|----------------------|----------------------------------|-------------------------------------|-------|--------------------------|
| 77515 | 35 | 742.36 | 226.27 | 6.479 | 78106 | 2 | 42.29 | 12.89 | 0.369 |

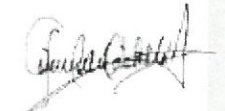

| Average length per pipe Longitud promedio por tubo | | Nominal weight per pipe Peso nominal por tubo | |
|---|-------|--|--------|
| (ft) | (m) | (lb/ft) | (kg/m) |
| 21.207 | 6.464 | 19.241 | 28.634 |

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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.

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

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