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|--|-------------------------------------|--------------------------------|
| INSPECTION CERTIFICATE 3.1 CERTIFICADO DE INSPECCIÓN 3.1 EN 10204 3.1: 2004 | Number / Número: 17022805 | Page / Página: 1 / 6 |
| Date / Día: April 29, 2017 | | |

| | | | | | | | |
|--|--|--|--|---|--|--|--|
| Customer / Cliente: PLESA ANAHUAC Y CIAS. S.A. DE C.V. | | Customer's Order Item / Orden Cliente - Item: 24851 ITEM 1 | | Customer's Reference / Ref. del Cliente: N/A | | Manufacturer's Works Order N° / Confirmación de Venta: 249434/01 | |
| Manufacturing Process / Proceso de Manufactura: SEAMLESS HOT ROLLED LAMINADO EN CALIENTE SIN COSTURA | | Product Type / Tipo de Producto: SEAMLESS LINE PIPE CONDUCCION SIN COSTURA | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL1 | | Surface / Superficie: VARNISHED BARNIZADO | |
| Standard or Specification / Normas o Especificaciones: API 5L ED45/DECEMBER 2012, ASTM A106/15, ASTM A53/12, ASME SA106/2015 | | | | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL | | Nominal Weight / Peso Nominal: 15.00 LB/FT 22.32 KG/M | |
| Dimensions / Dimensiones: 4.500 X 0.337 INCH 114.3 X 8.6 MM | | Schedule / Cédula: SCH 080 / W.C XS | | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | | Quantity / Cantidad: 20 Pcs/Pz 421.358 FT 6305.226 LB 128.430 MTS 2860.000 KG | |

TENSILE TEST / ENSAYO DE TENSIÓN

| 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: -- MPa | | U.T.S. Req. Min: 415 Max: -- MPa | | Y.S./U.T.S. Req. Max. -- | Elongation / Alargamiento | | |
|----------------------|-------------------------|---|----|--------------|-----|--|------------------------|---------------------------------|--|------|--|------|--------------------------------|---------------------------|---|--|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño mm | Area Sección mm2 | | Lo | Min. | Obt. | | | | | |
| | | | | | | | | | | | | mm | | % | % | |
| 14515 | 57168 | B | AM | Ss | L | 25.36 X 08.46 | 216,77 | RT | 350 | 530 | 0,66 | 50,8 | 25,1 | 39,0 | | |
| 86318 | 37093 | B | AM | Ss | L | 25.46 X 08.31 | 213,75 | RT | 342 | 522 | 0,65 | 50,8 | 25,0 | 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 | -- | -- | -- | -- | 10 | -- | -- | 15 | 100 | 6 |
| | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Heat N° Colada N° | Sample N° Muestra N° | P Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | -- | 10 | -- | -- | 15 | 100 | 6 |
| | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14515 | 00001 | H | 20 | 8,5 | 19 | 3 | 11 | 12 | 2 | 1 | 0 | 80 | 154 | 10 | 21 | 2 | 6 | 3 | 23 | 76 | 0.3 | 37.5 | 0.1 |

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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° | P | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | 10 | -- | -- | 15 | 100 | 6 |
| | | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Heat N° Colada N° | Sample N° Muestra N° | P | Max | 28 | 120 | -- | 15 | 40 | 30 | 30 | 80 | -- | 400 | 400 | -- | -- | -- | 10 | -- | -- | 15 | 100 | 6 |
| | | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 14515 | 57168 | P | 19 | 85 | 19 | 2.8 | 11 | 12 | 1.9 | 0 | 0 | 90 | 146 | 11 | 23 | 0 | 6 | 0 | 18 | 79 | 0 | 37.4 | 0 |
| 14515 | 57169 | P | 20 | 85 | 19 | 2.8 | 11 | 11 | 1.9 | 0 | 0 | 90 | 147 | 11 | 23 | 0 | 5 | 0 | 20 | 69 | 0 | 37.5 | 0 |
| 86318 | 00001 | H | 20 | 84 | 18 | 2.8 | 6 | 13 | 1.2 | 0 | 0 | 40 | 124 | 10 | 22 | 0 | 3 | 0 | 13 | 89 | 0 | 25.2 | 0 |
| 86318 | 37093 | P | 20 | 84 | 18 | 2.8 | 6 | 13 | 1.8 | 0 | 0 | 40 | 125 | 9 | 21 | 0 | 3 | 0 | 12 | 78 | 0 | 25.3 | 0 |
| 86318 | 37094 | P | 20 | 83 | 18 | 2.8 | 6 | 14 | 1.6 | 0 | 0 | 40 | 125 | 9 | 22 | 0 | 3 | 0 | 14 | 81 | 0 | 25.3 | 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 N° Colada N° | Sample N° Muestra N° | Required values Valores requeridos | | | Individuals / Individuales | | | Average / Promedio | | | Hardness type/Tipo de dureza:HRC | | | | | | | | | | | | |
|----------------------|-------------------------|---------------------------------------|-----------|---------|----------------------------|---------|---------|--------------------|---------|---------|----------------------------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|
| | | Min: -- | Max: 22.0 | Var: -- | Min: -- | Max: -- | Var: -- | Min: -- | Max: -- | Var: -- | Quad. | Scale Escala | OD | | | | MW | | | | ID | | |
| | | Specimen condition | | | Ls | Sc | | | | | | | | | | | | | | | | | |
| 14515 | 57168 | B | | | | | AM | | | 1 | HRBW | 77.0 | 77.2 | 77.8 | 77.3 | 78.4 | 78.2 | 78.3 | 78.3 | 78.8 | 78.8 | 78.9 | 78.8 |
| 14515 | 57169 | B | | | AM | | | 1 | HRBW | 77.1 | 78.8 | 78.8 | 78.2 | 77.8 | 79.1 | 79.0 | 78.6 | 78.8 | 79.6 | 79.5 | 79.3 | 1.1 | |

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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: -- | Quad. | | Scale Escala | | OD | | | | MW | | | | ID | | | | Var. |
| Heat N° Colada N° | Sample N° Muestra N° | Specimen condition | | | Quad. | Scale | OD | | | | MW | | | | ID | | | | Var. | | | | | |
| | | Ls | Sc | | | | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | | | | | | |
| 86318 | 37093 | B | AM | | 1 | HRBW | 77.8 | 77.9 | 78.0 | 77.9 | 78.1 | 78.6 | 78.3 | 78.3 | 78.6 | 78.4 | 78.4 | 78.5 | | 0.6 | | | | |
| 86318 | 37094 | B | AM | | 1 | HRBW | 77.5 | 76.8 | 77.8 | 77.4 | 77.9 | 78.1 | 78.3 | 78.1 | 77.6 | 78.0 | 78.8 | 78.1 | | 0.7 | | | | |

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: / | | | | |
|----------------------|-------------------------|----|----|---------------------|----------------------|-------------------------|----|----|---------------------|
| Heat N° Colada N° | Sample N° Muestra N° | Ls | Sc | Result Resultado | Heat N° Colada N° | Sample N° Muestra N° | Ls | Sc | Result Resultado |
| 14515 | 57169 | B | AM | Good / Bueno | 86318 | 37094 | 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

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HYDROSTATIC TEST / PRUEBA HIDRÁULICA

| Pressure / Presión | | Time / Tiempo | Results / Resultado |
|--------------------|---------------|--------------------|------------------------------|
| Unit / Unidad. | Value / Valor | Seconds / Segundos | |
| mpa | 20.5 | 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 |
| As rolled |

SUPPLEMENTARY INFORMATION / INFORMACION SUPLEMENTARIA

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

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SUPPLEMENTARY INFORMATION / INFORMACION SUPLEMENTARIA

| Supplementary information Información Suplementaria | |
|--|---|
| 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 22HRC MAX. Tamsa Ref: 864912 | 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: 864912 |

SUMMARY REPORT / REPORTE RESUMEN

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) |
|----------------------|----------------------------------|--------------------|-------|--------------------------|
| | | (ft) | (m) | |
| 14515 | 6 | 126.87 | 38.67 | 0.858 |
| 86318 | 14 | 294.49 | 89.76 | 2.002 |

| Average length per pipe Longitud promedio por tubo | | Nominal weight per pipe Peso nominal por tubo | |
|---|-------|--|--------|
| (ft) | (m) | (lb/ft) | (kg/m) |
| 21.068 | 6.422 | 14.964 | 22.269 |



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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 COMPAÑÍA DE INSPECCIÓN NO APLICA Employee Name: N/A |  QUALITY CERTIFICATION DEPT. DEPTO. DE CERTIFICACIÓN DE CALIDAD Héctor Manuel Romero Cadenas |  CHIEF OF QUALITY CERTIFICATION DEPT. RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD Angel César Alemán Gil |

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