

CERTIFICADO DE PRUEBAS EN FABRICA CERTIFICADO DE PRUEBAS EN FABRICA

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11033176

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Date / Día: **August 03, 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: 157137/13 |
| 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 SPEC 5L, OCTOBER 1, 2007 | | | Steel Grade / Grado de acero: B/X42-L245/L290 PSL1 | Ends / Extremos: NORMAL BEVEL BISELADO NORMAL |
| Dimensions / Dimensiones: 16.000 X 0.5 INCH 406.4 X 12.7 MM | Schedule / Cédula: 040 | Length / Longitud: 19.69 / 21.33 FT 6.00 / 6.50 MTS | Quantity / Cantidad: 15 Pcs/Pz 312.500 FT 26098.344 LB 95.250 MTS 11838.000 KG | Nominal Weight / Peso Nominal: 82.85 LB/FT 123.31 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 | Y.S. Eul 0.50 % | | U.T.S. Req. | | Y.S./U.T.S. Req. Max. -- | Elongation / Alargamiento | | |
|----------------------|-------------------------|-----------------------------------------------|----|--------------|-----|--------------------------------------------------|------------------------|---------------------------|---------------------------|----------------------------|------------------------|----|--------------------------------|---------------------------|------|--|
| | | Ls | Sc | Type Tipo | Ori | Size Tamaño mm | Area Sección mm2 | | Min: 290 Max: -- °C | Min: 415 Max: -- mpa | Req. Max. -- mpa | Lo | | Min. | Obt. | |
| 55406 | 84398 | B | AM | Ss | L | 38 X 12.02 | 456,76 | RT | 338 | 487 | 0,69 | 2 | 29.1 | 42.0 | | |

| | | | |
|----------------------------------------------------|--------------------------------------------------|-----------------------------------------------|--------------------------------------------------|
| 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 / 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° Colada N° | H Max | 28 | 120 | -- | 40 | 15 | 30 | 30 | 400 | 80 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | 6 | 100 | 15 | |
| | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Heat N° Colada N° | P Max | 28 | 120 | -- | 40 | 15 | 30 | 30 | 400 | 80 | 400 | -- | -- | -- | -- | -- | -- | -- | -- | 6 | 100 | 15 | |
| | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 55406 | 00001 | H | 17 | 66 | 27 | 5 | 2.3 | 1.3 | 11 | 60 | 0 | 132 | 19 | 8 | 4 | 0 | 0 | 7 | 0 | 74 | 0 | 26.5 | 0 |
| 55406 | 84398 | P | 18 | 67 | 28 | 5 | 2.4 | 1.6 | 10 | 60 | 0 | 128 | 20 | 8 | 4 | 0 | 4 | 10 | 0 | 74 | 0 | 26.2 | 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.

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| | | | | Nominal Weight / Peso Nominal: 82.85 LB/FT 123.31 KG/M | | | |

CHEMICAL COMPOSITION / COMPOSICIÓN QUÍMICA

| | | 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 | 120 | -- | 40 | 15 | 30 | 30 | 400 | 80 | 400 | -- | -- | -- | -- | -- | -- | -- | 6 | 100 | 15 | |
| | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Colada N° | Muestra N° | P Max | 28 | 120 | -- | 40 | 15 | 30 | 30 | 400 | 80 | 400 | -- | -- | -- | -- | -- | -- | 6 | 100 | 15 | | |
| | | Min | -- | 29 | 10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 55406 | 84399 | P | 18 | 67 | 28 | 5 | 2.3 | 1.6 | 10 | 60 | 0 | 127 | 20 | 8 | 4 | 0 | 4 | 10 | 0 | 74 | 0 | 26 | 0.4 |

| | | | |
|----------------------------|----------------------|-----------------------|-----------------------|
| 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: -- | Quad. | Min: -- | Max: -- | Var: -- | Scale | Min: -- | Max: -- | Var: -- | Scale | OD | | | | MW | | | | ID | | | | Var. |
| Heat N° | Sample N° | Specimen condition | Quad. | Scale | OD | | | | MW | | | | ID | | | | Var. | | | | | | | | | |
| Colada N° | Muestra N° | LS | Sc | Escala | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | 1 | 2 | 3 | Avg. | Var. | | | | | |
| 55406 | 84398 | B | AM | 1 | HRBW | 75.2 | 75.0 | 76.7 | 75.6 | 75.8 | 74.7 | 74.7 | 75.1 | 70.9 | 75.0 | 74.5 | 73.5 | 2.2 | | | | | | | | |
| 55406 | 84399 | B | AM | 1 | HRBW | 76.0 | 75.6 | 75.5 | 75.7 | 76.0 | 76.4 | 78.0 | 76.8 | 76.3 | 78.2 | 77.4 | 77.3 | 1.6 | | | | | | | | |

| | | | |
|----------------------------------------------------|--------------------------------------------------|--------------------------|--------------------------------------------------|
| 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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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° Colada N° | Sample N° Muestra N° | Result Resultado |
| 55406 | 84398 | Good / Bueno |

HYDROSTATIC TEST / PRUEBA HIDRAULICA

| Pressure / Presión | | Time / Tiempo | Results / Resultado |
|--------------------|---------------|--------------------|------------------------------|
| Unit / Unidad. | Value / Valor | Seconds / Segundos | |
| psi | 2,230 | 5 | Satisfactory / Satisfactorio |

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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: ceicius | |
| | Type Tipo |
| asrolled | |

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 Not repaired by welding Non destructive test. Satisfactory Inspection method * - EMI - FLVI - MPI - API SPEC 5L, OCTOBER 1, 2007, FE.20090101/ASTM A106,08/ ASTM A53,07/ASME SA106,07 MATERIAL ACCORDING TO NACE MR0175-2003 | 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 No reparado por soldadura Control no destructivo. Satisfactorio Método de inspección * - EMI - FLVI - MPI - API SPEC 5L, OCTOBER 1, 2007, FE.20090101/ASTM A106,08/ ASTM A53,07/ASME SA106,07 MATERIAL DE ACUERDO A NACE MR0175-2003 |

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SUPPLEMENTARY INFORMATION / INFORMACIÓN SUPLEMENTARIA

| | |
|--------------------------------------------------------|-------------------|
| Supplementary Information Información Suplementaria | |
| Tamsa Ref: 145564 | Tamsa Ref: 145564 |

SUMMARY REPORT / REPORTE RESUMEN

| Heat N° Colada N° | Quantity Cantidad (Pieces) | Length Longitud | | Weight Peso (Tons) |
|----------------------|----------------------------------|--------------------|-------|--------------------------|
| | | (ft) | (m) | |
| 55406 | 15 | 312.5 | 95.25 | 11.838 |

| Average length per pipe Longitud promedio por tubo | | Nominal weight per pipe Peso nominal por tubo | |
|-------------------------------------------------------|------|--------------------------------------------------|---------|
| (ft) | (m) | (lb/ft) | (kg/m) |
| 20.833 | 6.35 | 83.515 | 124.283 |

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| | | | 95.250 MTS 11838.000 KG | | 123.31 KG/M | | |

| | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 aqui 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 Alejandro Molina Iglesias |  CHIEF OF QUALITY CERTIFICATION DEPT. RESPONSABLE DEL DEPTO. DE CERTIFICACIÓN DE CALIDAD Ricardo Lozano Armenta |

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