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Empresa Certificada Según:
NMX-CC-9001-IMNC-2008 / ISO 9001 : 2008



REPORTE DE PRUEBAS NUMERO:
TEST REPORT NUMBER:
 CERTIFICADO SERIE / CERTIFICATE SERIES:
MTR-TCI-AV- 01499

CERTIFICADO DE INSPECCION / INSPECTION CERTIFICATE / EN 10204: 2004 - 3.1.

| | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------------------------|------------------|---|--|-------------------------------|-------------------------|------------------------------|------------------------|--------------|----|-------------|-------|----|----|----|----|-------|---|-----|--------|-------|-------|
| NOMBRE DEL CLIENTE / CLIENT NAME: | | ORDEN DE COMPRA / P.O.NUM. | | REFERENCIA / REFERENCE | | FECHA / DATE: | | Codigo Formato: | | | | | | | | | | | | | | | |
| PLESA ANAHUAC Y CIAS., S.A. DE C.V. | | 11043 / 2696 | | | | lunes, 31 de octubre de 2011 | | OHTCI-1011 | | | | | | | | | | | | | | | |
| DESCRIPCION DEL ARTICULO / DESIGNATION OF ARTICLE : | | | | | | | | | | | | | | | | | | | | | | | |
| PARTIDA / ITEM | | CANTIDAD / QTY | | INFORMACIÓN / INFORMATION | | | | No. COLADA / HEAT No. | | | | | | | | | | | | | | | |
| 2 | | 8 | | 24" ANCHOR FLANGE 600# BORE 23.250" // MSS-SP-44-2006 /ANSI B16.5 / ASME B16.5-03 | | | | 11576 | | | | | | | | | | | | | | | |
| TIPO DE MATERIAL / MATERIAL TYPE : | | | | | CODIGOS y NORMAS APLICABLES / APLICABLE CODES & NORMS | | | | | | | | | | | | | | | | | | |
| A 694 - ASTM A 694-03 / ASME SA-694 GRADE F-52 / NACE MR-01-75-03 / ISO 15156-03 | | | | | ASME Boiler & Pressure Vessel Code SECC II , Part A 2010 // NRF-096 PEMEX-2010 | | | | | | | | | | | | | | | | | | |
| PROCESOS / PROCESS | | | | | TRATAMIENTOS TERMICOS / HEAT TREATMENTS | | | | | | | | | | | | | | | | | | |
| FORGED/ROLLED 1150°C - 1200°C | | | | | NORMALIZED 940°C AND ALLOWED TO COOL IN STILL AIR / NORMALIZADO A 940°C Y ENFRIADO AL AIRE CALMADO | | | | | | | | | | | | | | | | | | |
| MATERIA PRIMA: FORJA /BASE MATERIAL: ROUGH FORGING | | | | | | | | | | | | | | | | | | | | | | | |
| MILL HEAT-SUPPLIER : HEAT NUMBER# 11576 | | | | | | | | | | | | | | | | | | | | | | | |
| % COMPOSICION QUIMICA / % CHEMICAL COMPOSITION : | | | | | | | | | | | | | | | | | | | | | | | |
| % | C | Mn | Si | P | S | Cr | Ni | Mo | Cu | Sn | AL | Nb | V | Ti | Co | As | Sb | H ppm | N | CEQ | Cr+Mo | (1*) | |
| REQUERIDO/ Required MAX | ≤ 0.265 | ≤ 1.44 | 0.1 - 0.40 | ≤ 0.030 | ≤ 0.030 | | | | | | | | | | | | | | | | ≤ 0.48 | | |
| RESULTADOS/ Results | 0.190 | 1.160 | 0.22 | 0.015 | 0.004 | 0.08 | 0.07 | 0.02 | 0.2 | | | 0 | 0.004 | | | | | | | | 0.422 | 0.100 | 0.374 |
| PROPIEDADES MECANICAS / MECHANICAL PROPERTIES | | | | | | | | | | | | | | | | | | | | | | | |
| PRUEBA DE TENSION / TENSILE TEST | | | | UTS-Rm (PSI) | | YS -Rp0.2% (PSI) | | Elongación | | Reducción | | DurezaHB | | | | | | | | | | | |
| No. PRUEBA / TEST No. | Dimension Especimen | Dirección | Temperatura | RESISTENCIA Tensile/Strength | | LIMITE ELASTICO / Yield Point | | Elong.-A (%) (Min) | | Red. of Area | | Hardness HB | | | | | | | | | | | |
| | Specimen dimension | Direction | Temperature Test | 455 Mpa / 66 ksi (Min) | | 360 Mpa / 52 ksi (Min) | | 20 | | 65 | | 156 | | | | | | | | | | | |
| 11576 | | Longitudinal | | 517 | | 377 | | 35 | | 65 | | 156 | | | | | | | | | | | |
| PRUEBAS DE IMPACTO / IMPACT TESTS | | | | | | | | | | | | | | | | | | | | | | | |
| No. PRUEBA / TEST No. | Temperatura | Dirección | Resiliencia | | Promedio | | Expansión Lateral | | Fractura | | | | | | | | | | | | | | |
| | Temperature | Direction | KV Energy J | | Average | | Lateral expansion | | S. Fracture | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| OTRAS PRUEBAS / OTHER TESTS | | | | | | | | | | | | | | | | | | | | | | | |
| No. PRUEBA / TEST No. | Tipo de Prueba | | Temperatura | | Tiempo Sostenido | | Velocidad/Calentamiento | | Velocidad/Enfriamiento | | | | | | | | | | | | | | |
| | Type of Test | | Temperature | | Holding Time | | Heating Rate | | Cooling Rate | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| NOTA / NOTE: | 1)Cr+Ni+Mo+Cu+V / NO WELDING HAS BEEN PERFORMED // THIS PRODUCT IS FREE FROM MERCURY AND RADIOACTIVE | | | | | | | | | | | | | | | | | | | | | | |
| MARCADO / MARKING : VX VX FLANGES & FITTINGS® QA TCI / Inspectores autorizados / Authorized Works Inspectors: | | | | | | | | | | | | | | | | | | | | | | | |
| Ing. Jorge Ortiz / Ing. Andres Lira / Ing. Rafael Eguita | | | | | | | | | | | | | | | | | | | | | | | |

Certificamos que todos los resultados de pruebas e información de proceso y procedimientos asentados en el presente, son correctos y verdaderos, concordando con los Registros de soporte técnico, Aseguramiento de calidad y Sistema de Gestión de la Calidad./ We here by certify that all test results and process information contained here in, are true and correct in accordance with in all the records of technical support, QA management and the company quality management sistem. (EMPRESA CERTIFICADA SEGUN LA NORMA NMX-CC-9001-IMNC-2008/ ISO 9001:2008 para las actividades siguientes: FABRICANTE DE BRIDAS Y CONEXIONES / certified company for the following activities: MANUFACTURING PROCESS OF FLANGES AND FITTINGS.)



CERTIFICADO APROBADO POR:
 APPROVED CERTIFICATE BY:

