表x-x 工况一挠度原始数据处理表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **测点号** | **初始读数** | **满载** | **退载** | **总挠度** | **弹性挠度** | **残余变形** |
| A-1 | 162.82 | 164.48 | 162.62 | 1.66 | 1.66 | 0.00 |
| A-2 | 106.13 | 108.15 | 106.13 | 2.02 | 2.02 | 0.00 |
| A-3 | 76.95 | 79.48 | 77.07 | 2.53 | 2.41 | 0.12 |
| A-4 | -259.81 | -257.64 | -260.02 | 2.17 | 2.17 | 0.00 |

表x-x 工况一挠度检测结果汇总表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **测点号** | **实测值(mm)** | | | **满载理论值(mm)** | **校验系数** | **相对残余变形** |
| **总变形** | **弹性变形** | **残余变形** |
| A-1 | 1.66 | 1.66 | 0.00 | 2.09 | 0.79 | 0.00% |
| A-2 | 2.02 | 2.02 | 0.00 | 2.66 | 0.76 | 0.00% |
| A-3 | 2.53 | 2.41 | 0.12 | 2.70 | 0.89 | 4.74% |
| A-4 | 2.17 | 2.17 | 0.00 | 2.59 | 0.84 | 0.00% |

图x-x 工况一挠度实测值与理论计算值的关系曲线

表x-x 工况一A-A截面应变原始数据处理表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **测点号** | **初始读数** | | **满载** | | **退载** | | **加载** | | **退载** | | **总应变** | **弹性应变** | **残余应变** |
| **模数R** | **温度T** | **模数R** | **温度T** | **模数R** | **温度T** | **ΔR** | **ΔT** | **ΔR** | **ΔT** |
| A-1 | 689.3 | 13.2 | 700.8 | 13.2 | 689.3 | 13.2 | 11.5 | 0.0 | 0.0 | 0.0 | 43.4 | 43.4 | 0.0 |
| A-2 | 663.4 | 13.3 | 676.7 | 13.7 | 664.6 | 13.5 | 13.3 | 0.4 | 1.2 | 0.2 | 50.9 | 46.0 | 4.9 |
| A-3 | 598.1 | 13.2 | 608.8 | 13.5 | 598.3 | 13.4 | 10.7 | 0.3 | 0.2 | 0.2 | 40.9 | 39.8 | 1.1 |
| A-4 | 678.8 | 13.4 | 690.7 | 13.6 | 679.0 | 13.5 | 11.9 | 0.2 | 0.2 | 0.1 | 45.3 | 44.3 | 0.9 |

表x-x 工况一A-A截面应变检测结果汇总表

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **测点号** | **实测应变值(με)** | | | **满载应力理论值**  **（MPa）** | **满载理论值**  **(με)** | **校验系数** | **相对残余应变** |
| **总应变** | **弹性应变** | **残余应变** |
| A-1 | 43.4 | 43.4 | 0.0 | 1.0 | 68.0 | 0.64 | 0.00% |
| A-2 | 50.9 | 46.0 | 4.9 | 2.0 | 68.0 | 0.68 | 9.60% |
| A-3 | 40.9 | 39.8 | 1.1 | 3.0 | 62.0 | 0.64 | 2.72% |
| A-4 | 45.3 | 44.3 | 0.9 | 4.0 | 55.0 | 0.81 | 2.06% |

图x-x 工况一A-A截面应变实测值与理论计算值的关系曲线

表x-x 工况一B-B截面应变原始数据处理表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **测点号** | **初始读数** | | **满载** | | **退载** | | **加载** | | **退载** | | **总应变** | **弹性应变** | **残余应变** |
| **模数R** | **温度T** | **模数R** | **温度T** | **模数R** | **温度T** | **ΔR** | **ΔT** | **ΔR** | **ΔT** |
| B-1 | 732.8 | 13.6 | 729.2 | 13.9 | 732.3 | 13.9 | -3.6 | 0.3 | -0.5 | 0.3 | -13.0 | -11.7 | -1.3 |
| B-2 | 681.5 | 13.5 | 678.2 | 13.8 | 681.0 | 13.7 | -3.3 | 0.3 | -0.5 | 0.2 | -11.9 | -10.4 | -1.5 |
| B-3 | 713.0 | 13.3 | 712.9 | 13.6 | 713.0 | 13.4 | -0.1 | 0.3 | 0.0 | 0.1 | 0.2 | 0.0 | 0.2 |
| B-4 | 629.8 | 13.2 | 625.9 | 13.5 | 629.1 | 13.4 | -3.9 | 0.3 | -0.7 | 0.2 | -14.2 | -11.9 | -2.3 |

表x-x 工况一B-B截面应变检测结果汇总表

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **测点号** | **实测应变值(με)** | | | **满载应力理论值**  **（MPa）** | **满载理论值**  **(με)** | **校验系数** | **相对残余应变** |
| **总应变** | **弹性应变** | **残余应变** |
| B-1 | -13.0 | -11.7 | -1.3 | 5.0 | -46.0 | 0.25 | 10.32% |
| B-2 | -11.9 | -10.4 | -1.5 | 6.0 | -52.0 | 0.20 | 12.82% |
| B-3 | 0.2 | 0.0 | 0.2 | 7.0 | -37.0 | 0.00 | 110.71% |
| B-4 | -14.2 | -11.9 | -2.3 | 8.0 | -28.0 | 0.42 | 16.09% |

图x-x 工况一B-B截面应变实测值与理论计算值的关系曲线

表x-x 工况二挠度原始数据处理表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **测点号** | **初始读数** | **满载** | **退载** | **总挠度** | **弹性挠度** | **残余变形** |
| C-1 | 805.60 | 807.43 | 805.45 | 1.83 | 1.83 | 0.00 |
| C-2 | 759.15 | 761.10 | 759.50 | 1.95 | 1.60 | 0.35 |
| C-3 | 716.20 | 718.09 | 716.36 | 1.89 | 1.73 | 0.16 |
| C-4 | 378.35 | 380.57 | 378.46 | 2.22 | 2.11 | 0.11 |

表x-x 工况二挠度检测结果汇总表

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **测点号** | **实测值(mm)** | | | **满载理论值(mm)** | **校验系数** | **相对残余变形** |
| **总变形** | **弹性变形** | **残余变形** |
| C-1 | 1.83 | 1.83 | 0.00 | 2.09 | 0.88 | 0.00% |
| C-2 | 1.95 | 1.60 | 0.35 | 2.66 | 0.60 | 17.95% |
| C-3 | 1.89 | 1.73 | 0.16 | 2.70 | 0.64 | 8.47% |
| C-4 | 2.22 | 2.11 | 0.11 | 2.59 | 0.81 | 4.95% |

图x-x 工况二挠度实测值与理论计算值的关系曲线

表x-x 工况二应变原始数据处理表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **测点号** | **初始读数** | | **满载** | | **退载** | | **加载** | | **退载** | | **总应变** | **弹性应变** | **残余应变** |
| **模数R** | **温度T** | **模数R** | **温度T** | **模数R** | **温度T** | **ΔR** | **ΔT** | **ΔR** | **ΔT** |
| C-1 | 591.6 | 13.3 | 602.7 | 13.3 | 591.6 | 13.3 | 11.1 | 0.0 | 0.0 | 0.0 | 41.9 | 41.9 | 0.0 |
| C-2 | 579.2 | 13.3 | 585.8 | 13.2 | 579.6 | 13.3 | 6.6 | -0.1 | 0.4 | 0.0 | 24.7 | 23.2 | 1.5 |
| C-3 | 705.9 | 13.5 | 718.5 | 13.4 | 707.1 | 13.4 | 12.6 | -0.1 | 1.2 | -0.1 | 47.4 | 43.0 | 4.3 |
| C-4 | 664.6 | 13.3 | 674.4 | 13.2 | 665.4 | 13.2 | 9.8 | -0.1 | 0.8 | -0.1 | 36.8 | 34.0 | 2.8 |

表x-x 工况二应变检测结果汇总表

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **测点号** | **实测应变值(με)** | | | **满载应力理论值**  **（MPa）** | **满载理论值**  **(με)** | **校验系数** | **相对残余应变** |
| **总应变** | **弹性应变** | **残余应变** |
| C-1 | 41.9 | 41.9 | 0.0 | 9.0 | 68.0 | 0.62 | 0.00% |
| C-2 | 24.7 | 23.2 | 1.5 | 10.0 | 68.0 | 0.34 | 6.10% |
| C-3 | 47.4 | 43.0 | 4.3 | 11.0 | 62.0 | 0.69 | 9.18% |
| C-4 | 36.8 | 34.0 | 2.8 | 12.0 | 55.0 | 0.62 | 7.71% |

图x-x 工况二应变实测值与理论计算值的关系曲线