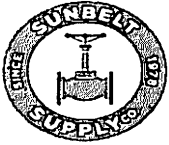


| | | | | | |
|--|---|----|--------------|--------|---------------------|
|  | Edmonton: SUNCOR FINAL INSPECTION / LOC | | | DOC #: | REV: 0 |
| | REVIEWED BY: | WV | APPROVED BY: | KG | Date: January, 2022 |

Sunbelt Supply Co. Letter of Compliance

We hereby certify that the products offered on the aforementioned Purchase Order are in compliance with Purchase Order description and Valve specification provided. In addition we hereby certify that:

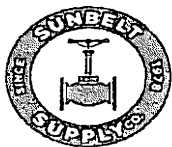
ALL MATERIALS ARE SUPPLIED IN STRICT ACCORDANCE TO SUNCOR STANDARD 0203 (LATEST REVISION) FOR VALVE MATERIALS

Mill test reports (MTRs) verifying compliance with NACE MR0103 and or MR0175 whichever is applicable for all wetted parts in sour service. Impact test, Seat Leakage test, and Hardness Test may be provided as part of the MTR. Hence the MTR may actually be used as one report that covers the others in lieu.

Positive material identification (PMI) for Alloy valve bodies and Bonnets is required per Suncor Standard 0213, report will accompany shipments where required.

Hydrostatic test report or Letter of Compliance stating that each valve has been inspected and tested per API 598 and comply with all referenced codes, standards, and Suncor standards. The Valve bonnet bolts have been properly torqued to the Manufacturers specification

Sunbelt confirms the design of all pressure components are registered with a Canadian Registration Number (CRN) in accordance with the Applicable Provincial Boiler and Pressure Vessels Regulations (i.e. ABSA - Alberta) in Canada or equivalent
Sunbelt has provided registrations within this document package.



Edmonton: SUNCOR FINAL INSPECTION / LOC

DOC #:

REV: 0

REVIEWED
BY:

WV

APPROVED BY:

KG

Date: January, 2022

DESCRIPTION: 4" LVGW3501

CUSTOMER PURCHASE ORDER/CONTRACT No: 3501092236

SALES ORDER No: 202299-00

QTY.: 1

ITEM No: 10

☐ Mod/Testing Insp. ☒ Final**INSPECTION:** The above-mentioned item(s) has(have) been inspected for the following conditions:

| | | | |
|---------------------------------|-------------------------------------|---|-------------------------------------|
| Quantity: | <input checked="" type="checkbox"/> | NCRs Completed & Verified (as appropriate): | <input type="checkbox"/> |
| Packaging: | <input checked="" type="checkbox"/> | Correctness (Valve Type, Size, Pressure Class, Material, Trim, End Connection): | <input checked="" type="checkbox"/> |
| Completeness: | <input checked="" type="checkbox"/> | Positive Material Identification: | <input type="checkbox"/> |
| Customer Hold Points Performed: | <input type="checkbox"/> | Applicable documentation complete: | <input checked="" type="checkbox"/> |
| Items properly tagged: | <input checked="" type="checkbox"/> | All Manufacturers CRN's included | <input type="checkbox"/> |
| Coating & Painting: | <input checked="" type="checkbox"/> | MTR's Provided with applicable testing reports | <input checked="" type="checkbox"/> |
| Fit and Functionality Test: | <input checked="" type="checkbox"/> | | |

FINAL INSPECTION**STATUS**

| ACC | REJ | HOLD QUARANTINE | NCR/CAR No. | RELEASE FOR SHIPMENT | DATE: |
|-----|-----|--------------------|-------------|-------------------------|---------|
| / | | | | / | 10/8/25 |

COMMENTS**CONTRACTOR'S QUALITY CERTIFICATE**

I certify that the item(s) listed herein have been inspected and tested in accordance with applicable drawings and specifications and all the requirements outlined in the contract or purchase order.

QUALITY REPRESENTATIVE

DATE: 10/8/25

Sunbelt Supply Co.
COMPANY/AGENCY/JURISDICTION

Letter of Compliance as per Syncrude Spec L-37

| | | | |
|------------------------------------|------------|--------------------------|----|
| SYNCRUDE P.O. NUMBER | | S.P.M. CODE | |
| MANUFACTURER | | FIGURE NUMBER | |
| NEWAY | | G6BA5-NC-ULE1P | |
| TYPE | GATE VALVE | SIZE | 4" |
| RATING | | 600# | |
| BODY HEAT NUMBER | | BONNET HEAT NUMBER | |
| 396DV | | 9DV59 | |
| SYNCRUDE SPEC L-37 REVISION NUMBER | | L-37 INSPECTION CATEGORY | |
| 17 | | 2 | |

SER# 10049245-010-1

| | | | |
|-----------------------|----------|---------------------|-----|
| NORTECH REPORT NUMBER | M-384518 | INDIVIDUAL V NUMBER | V-2 |
|-----------------------|----------|---------------------|-----|

| VISUAL EXAMINATION | | | | | | | |
|---|--|----------------------|---|---------------|---|-----------------------------|---------|
| TESTING COMPANY | | NORTECH ADVANCED NDT | | INSPECTOR | | Mike Carreiro | |
| DATE | | 7-Oct-25 | | QUALIFICATION | | N/A | |
| TEST METHOD USED --> | | MSS SP-25 | | MSS SP-55 | X | API 600 | API 602 |
| TEST RESULTS --> | | | | ACCEPTED | X | REJECTED | |
| HARDNESS TESTING (ALL RESULTS IN BRINELL) | | | | | | | |
| BODY | | | | BONNET | | | |
| MAGNETIC PARTICLE INSPECTION | | | | | | | |
| TESTING COMPANY | | NORTECH ADVANCED NDT | | INSPECTOR | | Mike Carreiro | |
| DATE | | 7-Oct-25 | | QUALIFICATION | | CGSB#: 11514 / SNT-TC-1A II | |
| TEST METHOD USED --> | | MSS SP-53 | X | DRY POWDER | | WET FLUORESCENT | X |
| TEST RESULTS --> | | | | ACCEPTED | X | REJECTED | |

| CASTING RADIOGRAPHY | | | | | |
|---------------------|-----------------------|------------------------|--|---------------|--------|
| TESTING COMPANY | | N/A | | INSPECTOR | |
| DATE | | N/A | | QUALIFICATION | |
| TEST METHOD --> | | ASME B16.34 APPENDIX I | | SPOT | FULL |
| TEST RESULTS | | | | | |
| CLASS | DEFECT | OBSERVED LEVEL | | ACCEPT | REJECT |
| A | POROSITY / BLOW HOLES | N/A | | | |
| B | SAND / SLAG | N/A | | | |
| CA | SHRINKAGE TYPE 1 | N/A | | | |
| CB | SHRINKAGE TYPE 2 | N/A | | | |
| CC | SHRINKAGE TYPE 3 | N/A | | | |
| CD | SHRINKAGE TYPE 4 | N/A | | | |
| D | CRACKS | N/A | | | |
| E | HOT TEARS | N/A | | | |
| F | UNFUSED INSERTS | N/A | | | |
| G | MOLTING | N/A | | | |

| HYDROSTATIC PRESSURE TESTING | | | | | |
|------------------------------|-------|---------------|---------|----------|-----------------------|
| TESTING COMPANY | | INSPECTOR | | | |
| DATE | | QUALIFICATION | | | |
| TEST METHOD --> | | API 598 | SHELL | BACKSEAT | HIGH PRESSURE CLOSURE |
| TEST RESULTS | | | | | |
| | SHELL | BACKSEAT | CLOSURE | ACCEPT | REJECT |
| TEST PRESSURE (psi) | | | | | |
| DURATION (seconds) | | | | | |
| LEAKAGE (drops/minute) | | | | | |

The undersigned hereby certifies that the above test results came from an approved test facility.

NAME (print): SIGNATURE :

POSITION: DATE :

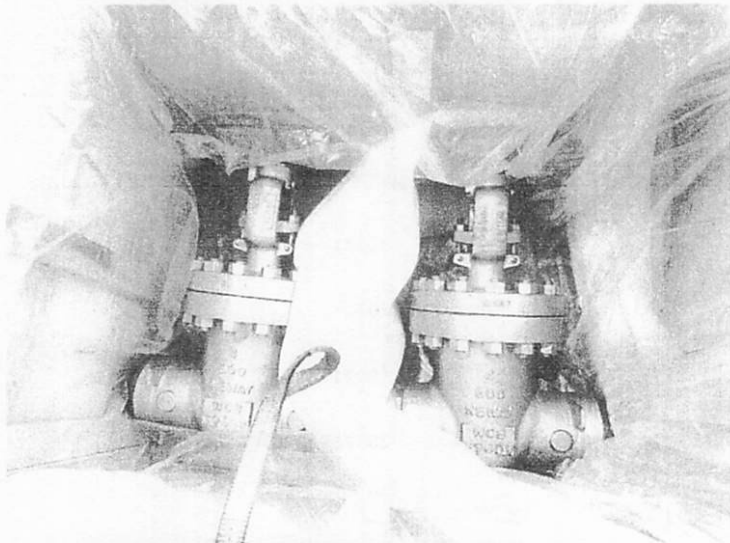
MAGNETIC PARTICLE TESTING REPORT - 384518

TEST RESULTS & COMMENTS

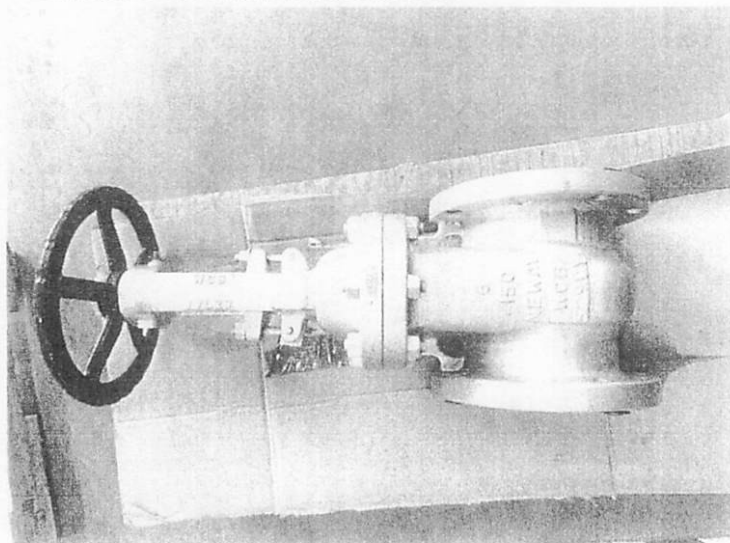
NO INDICATION(S) WERE NOTED @ TIME OF EVALUATION, IN COMPLIANCE WITH SYNCRUDE L37 CATEGORY 2 (2020) / MSS-SP-55 (2012) / MSS-SP-53 (2021).

BLACK LIGHT INTENSITY WAS GREATER THAN $1000\mu\text{W}/\text{cm}^2$ @ EVALUATION SURFACE.
YOKE VERIFIED BY SUSTAINED LIFT USING ALTERNATING CURRENT ON 10 LB WEIGHT.

Sunbelt PO 94523 qty 2 4in neway valves



Sunbelt PO 94523 qty 1 6in neway valve



SIGNATURES

* Client representative's signature indicates acceptance of the reports and results. Nortech Advanced NDT Ltd. is liable for examination costs only.

CLIENT REP. /

Technician (PRINT) Mike Carreiro
Technician (PRINT) Scott Saunders

CGSB: 2
CGSB:

CGSB REG#: 11514
CGSB REG#:

SNT-TC-1A: II
SNT-TC-1A: II

Technician (SIGN)





7108 - 8th Street NW
Edmonton, AB T6P 1V1
Ph: 780-449-5013 Fx: 780-449-5036
www.nortechadvanced.com

MAGNETIC PARTICLE TESTING REPORT - 384518

CLIENT: **SUNBELT SUPPLY**
182 Turbo Drive East
Sherwood Park, Alberta T8H 2J6

DATE: **October 7, 2025**
INVOICE #:
JOB #:
P.O. #: **94523-00**

EQUIPMENT OWNER: **SYNCRUDE CANADA LTD.**
LOCATION: **Nortech Advanced NDT Ltd.**

WORK ORDERS: **92856**

TECHNIQUE DETAILS

PROCEDURE #: **MTP-01 REV. 9**
TEST METHOD: **ASME V, ARTICLE 7 (2023)**
ACCEPTANCE STANDARD: **ASME B16.34 APP. II (2020) / SYNCRUDE L37 CATEGORY 2 (2020) / MSS-SP-55 (2012) / MSS-SP-53 (2021)**

EQUIPMENT

| | | | | | |
|-------------------|----------------------------|------------------|----------------------------|-----------|--------------------------|
| Manufacturer: | PARKER | Type: | B300 | Serial #: | 31331 |
| Last Calibration: | Oct-07-2025 | Calibration Due: | Oct-08-2025 | | |
| Manufacturer: | WESTERN INSTRUMENTS | Type: | 10 LBS | Serial #: | 1032 |
| Last Calibration: | Oct-07-2025 | Calibration Due: | Oct-08-2025 | | |
| Manufacturer: | REL | Type: | NOMAD C4 | Serial #: | 19021607 |
| Last Calibration: | Oct-07-2025 | Calibration Due: | Oct-08-2025 | | |
| Manufacturer: | SPECTRONICS | Type: | AccuMAX XR/XDS-1000 | Serial #: | 2037598 / 2307600 |
| Last Calibration: | Jun-10-2025 | Calibration Due: | Jun-10-2026 | | |

MAGNETIZING METHOD: ☒ AC ☐ DC ☒ Continuous ☐ Residual ☒ Yoke ☐ Coil
MAGNETIC PARTICLES: ☒ Wet ☒ Fluorescent ☐ Non-Fluorescent Bath Concentration: **0.25ml/100ml**
☐ Dry Color: **FLUORESCENT GREEN**

Manufacturer: **SREM TECHNOLOGIES** Type: **FLUXO 9** Batch/Lot #: **L230215-007**
LIGHT SOURCE: ☐ Halogen 250W ☐ Incandescent 100W ☐ Maglite 6 Volt Serial:
SURFACE CONDITION: ☒ Bare Metal ☐ Ground ☒ Machined ☐ Blasted ☒ Painted ☒ Welded ☐ Loose Scale Removed
MATERIAL TYPE: **WCB** MATERIAL THICKNESS: **0.5" - 3.0"** SURFACE TEMP: **16.3°C**

ITEMS TESTED

WET FLUORESCENT MAGNETIC PARTICLE EXAMINATION / DIRECT VISUAL EVALUATION WERE PERFORMED ON ALL ACCESSIBLE SURFACES OF THE FOLLOWING:
(ASSEMBLED ITEMS)

QTY. (ONE) 6" NEWAY 150 RF GT WCB T5 BB
G1RA5-ULE1P

| ITEM | BODY HEAT# | BONNET HT# | Accept | Reject |
|----------------|------------|------------|--------|--------|
| 10048916-030-1 | 529VY | 1VK28 | ✓ | |

QTY. (TWO) 4" NEWAY 600 GT BW S/XS WCB T5 ISS CLASS 600 BUTT WELD EXTRA STRONG
G6BA5-NC-ULE1P

| ITEM | BODY HEAT# | BONNET HT# | Accept | Reject |
|----------------|------------|------------|--------|--------|
| 10049245-010-1 | 396DV | 9DV59 | ✓ | |
| 10049245-020-1 | 396DV | 9DV59 | ✓ | |

Continued on next page . . .

SIGNATURES

* Client representative's signature indicates acceptance of the reports and results. Nortech Advanced NDT Ltd. is liable for examination costs only.

CLIENT REP.


Technician (PRINT) **Mike Carrero**
Technician (PRINT) **Scott Saunders**

CGSB:
CGSB:

CGSB REG#:
CGSB REG#:

SNT-TC-1A:
SNT-TC-1A:

Technician (SIGN)

| | | | | | | | | | |
|---|--------------------|--------------------------------|----------------|----------------------------|-------------------|---|----------------|--------|----------------------------|
|  | | Painting Report 油漆报告 | | | | Report No. 报告号 PR1100492450001A | | | |
| Customer/客户名称 | | SUNBELT SUPPLY CO./MAJOR INC. | | Project Name/项目名称 | | SYNCRUDE 2026 | | | |
| Customer's P.O No./客户订单号 | | 88340-00 | | Project Number/项目编号 | | 980002249 | | | |
| Painting System/油漆系统 | | NW A2 V2 | | | | | | | |
| Surface Preparation 表面处理 | | | | | | | | | |
| Date 日期 | 2025-08-13 | Oil And Grease Removed 除去油/脂 | Yes | Soluble Salts Removed 除去溶盐 | Yes | | | | |
| Air Temperature deg.C 空气温度 | 32.00 | Dust Removed 除去灰尘 | Level 2 | Sharp Edges Rounded 磨圆尖角边缘 | Yes | | | | |
| Temperature of Steel deg.C 钢材表面温度 | 31.70 | Abrasive blasting 打磨清理 | ST 2 | Roughness Micron 粗糙度 微米 | / | | | | |
| Humidity RH% 相对湿度 | 71.40 | Type/Grade Of Abrasive 钢砂型号 | / | Salt Test (mg/m²) 盐分 | 16.80 | | | | |
| Dew Point deg.C 露点 | 26.00 | / | / | / | / | | | | |
| Coating Application 油漆施工 | | | | | | | | | |
| | First coat 第一层 | Second coat 第二层 | Third coat 第三层 | Fourth coat 第四层 | | | | | |
| Date 日期 | 2025-08-13 | 2025-08-14 | | | | | | | |
| Air Temperature deg.C 空气温度 | 32.00 | 34.50 | | | | | | | |
| Temperature Of Steel deg.C 钢材表面温度 | 31.70 | 34.10 | | | | | | | |
| Humidity RH% 相对湿度 | 71.40 | 64.40 | | | | | | | |
| Dew Point deg.C 露点 | 26.00 | 26.70 | | | | | | | |
| Product Name 商品名 | H53-9 | BYF | | | | | | | |
| Manufacturer 生产商 | 武进延陵 Wujin Yanlin | 上海博泛 Shanghai Bofan | | | | | | | |
| Batch No. 批次号 | 202501018 | 2025-07-011 | | | | | | | |
| Exp. Date/有效期 | 20260116 | 20260630 | | | | | | | |
| Color/颜色 | 灰色 GREY | 铝色 Aluminium | | | | | | | |
| Minimum dry micron (um) 最小干膜厚度 Note 1 | 28.00 | 54.00 | | | | | | | |
| Maximum dry micron (um) 最大干膜厚度 Note 1 | 109.00 | 211.00 | | | | | | | |
| Average dry micron (um) 平均干膜厚度 Note 1 | 71.00 | 136.00 | | | | | | | |
| Nos. of measurements 测量次数 | 5 | 5 | | | | | | | |
| MEK test MEK 测试 If necessary | / | | | | | | | | |
| Final Inspection 最终检验 | | | | | | | | | |
| Adhesion Test 附着力测试 | 4A | / | / | | | | | | |
| Valve List 阀门清单 | | | | | | | | | |
| PO Item No. 客户项次号 | Product Code 客户物料号 | Serial No. 系列号 | Qty 数量 | Valve Description 阀门描述 | PO Item No. 客户项次号 | Product Code 客户物料号 | Serial No. 系列号 | Qty 数量 | Valve Description 阀门描述 |
| 1 | 4G6BA5-NC-ULE1P | 10049245-010-1 | 1 | GATE VALVE,4G6B8,C00/5.&&& | 2 | 4G6BA5-NC-ULE1P | 10049245-020-1 | 1 | GATE VALVE,4G6B8,C00/5.&&& |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Inspector: 检验 | Li Wenhao | Print Date: 日期 | 20250819 | Reviewer: 审核 | Chen Ming | Print Date: 日期 | 20250819 | | |

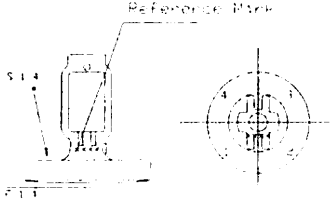
Note 1: Accumulated DFT value for applied layer is identified in this line



Pressure Test Report

Report NO.: HPPR110049245A
Print Date: 2025.08.19
Page: 1 of 1

| | | | | | | | | | | |
|---|--------------|-------------------------------|------------------------------|----------------|----------------|----------------------------|-------------|---------------------------|----------------|--------|
| Customer | | SUNBELT SUPPLY CO./MAJOR INC. | | P.O No. | | 88340-00 | | | | |
| Project | | SYNCRUDE 2026 | | Test Procedure | | N/A | | | | |
| Po item No. | SAP Item No. | Product Code | Description | Qty | Test Standard | Test | Test Medium | Pressure (MPa) | Duration (sec) | Result |
| 1 | 10049245-10 | 4G6BA5-NC-ULE1P | GATE VALVE,G.4,CLASS 600,WCB | 1 | API598 EN12266 | Hydrostatic shell Test | Water | 15.40 | 60 | Accept |
| | | | | | | High-pressure Closure Test | Water | 11.30 | 60 | Accept |
| | | | | | | Backseat Test | Water | 11.30 | 60 | Accept |
| | | | | | | Low-pressure closure test | Air | 0.60 | 60 | Accept |
| 2 | 10049245-20 | 4G6BA5-NC-ULE1P | GATE VALVE,G.4,CLASS 600,WCB | 1 | API598 EN12266 | Hydrostatic shell Test | Water | 15.40 | 60 | Accept |
| | | | | | | High-pressure Closure Test | Water | 11.30 | 60 | Accept |
| | | | | | | Backseat Test | Water | 11.30 | 60 | Accept |
| | | | | | | Low-pressure closure test | Air | 0.60 | 60 | Accept |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| We hereby certify that the valve listed above are tested in accordance with the requirements of valve inspection and testing. | | | | | | | | | | |
| Inspector: | | | Signature: <i>Li Heng</i> | | | Approved | | Signature: <i>Li Heng</i> | | |

| | | | | | | | | | |
|--|--------------------------------|---|-----------|--------------------------------------|--|---------------------------|----------------------|-----------------------------|---------------|
| NEWAY | | RAD I OGRAPH IC TESTING REPORT 射线探伤报告 (Part I) | | | | 表码 N W S6830-01 | | | |
| | | | | | | 版本号 2022 | | | |
| | | | | | | Report No. 2025R1-IC 9259 | | | |
| Customer Name 客户名 | | NEE YA VALVE (SU ZHOU) CO., LTD 苏州纽威阀门股份有限公司 | | Film No. 片号 | | IC 9259 | | | |
| Inspection Lab. 检测单位 | | NEE YA INDUSTRIAL (DAFENG) CO., LTD 纽威工业材料 (大丰) 有限公司 | | Heat No. 产品炉号 | | 90V59 | | | |
| Product form 产品类型 | | ■ Casting 铸件 | | Product Name 产品名称 | | ■ bonnet 盖 | | | |
| Heat treatment status 产品热处理状态 | | ■ Normalized 正火 | | Source type 射线源种类 | | ■ X-Ray | | | |
| Film type 胶片等级 | | ■ Type II 胶片 II 级 | | Brand 胶片商标 | | ■ FUJIFILM 富士 100H D | | | |
| Screen size 增感屏 | | ■ X 射线 0.13 0.25mm pb | | SFD (FFD) (mm) 焦距 (mm) | | 600 | | | |
| Focus Size (mm) 焦点尺寸 (mm) | | ■ X 射线 1×2.5 | | Radiographic Techniques RT 技术 | | ■ SW SW 单壁单影 | | | |
| Acceptance Std. & Criteria 可接收标准 | | ■ T ≤ 50mm A2 B3 C A2 C B3 C C3 C D3 ■ S-RT | | Std. of Reference Radiograph 评定标准 | | ■ E146 | | | |
| | | | | | | Voltage 管电压 (kV) 270 | | | |
| | | | | | | Current 管电流 (mA) 5 | | | |
| | | | | | | Activity 源活度 (Ci) | | | |
|  | | | | | | | | | |
| Film No. 片号 | Indication description 缺陷描述 | Evaluate Result 片子评定结果 | | | Thickness range 壁厚范围 (mm) | Density range 黑度范围 | RQ Filament 像质计型号 | Exposure time 曝光时间 (min) | Remarks 备注 |
| | | Grade 等级 | ACC 合格 | Rej 不合格 | | | | | |
| IC 9259-1 | ND | I | √ | | 19.5 | 1.5~4.0 | ASTM IB-9 | 3.1 | |
| IC 9259-2 | ND | I | √ | | 19.5 | 1.5~4.0 | ASTM IB-9 | 3.1 | |
| IC 9259-3 | ND | I | √ | | 19.5 | 1.5~4.0 | ASTM IB-9 | 3.1 | |
| IC 9259-4 | ND | I | √ | | 19.5 | 1.5~4.0 | ASTM IB-9 | 3.1 | |
| 以下空白 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| Defect codes of casting 铸件缺陷代号说明: A - Porosity 气孔, B - Slag 夹砂, 夹渣, C A C B C C C D - Shrinkage 缩松; D - Crack 裂纹, E - Hot tear 热裂, F - Inset 嵌入物, G - No significant discontinuity 无缺陷. | | | | | | | | | |
| Defect codes of weld 焊缝缺陷代号说明: P - Porosity 气孔, L - Inclusion 条渣, C - Incomplete penetration 未焊透, B - Incomplete fusion 未熔合, C O V - Root Concavity 内凹, U - Undercut 咬边, M - Misalignment 错口, D - Crack 裂纹, ND - No significant discontinuity 无缺陷. | | | | | | | | | |
| Evaluated by 评定者: | | Weiwei gao 高卫卫 | | | Reviewed by 审核者: | | Weidong 魏东 | | |
| RT qualification level: RT-II 资格等级: RT-II | | | | | RT qualification level: RT-II 资格等级: RT-II | | | | |
| Date 日期 2025-05-16 | | | | | Date 日期 2025-05-18 | | | | |



RADIOGRAPHIC TESTING REPORT
射线探伤报告 (Part II)

表码NW S6830-01

版本号:2022

Report No.2025RT-2C 1153

| Film No. 片号 | Indication description 缺陷描述 | Evaluate Result 片子评定结果 | | | Thickness range 壁厚范围 (mm) | Density range 黑度范围 | Ident 像质计型号 | Exp. time 曝光时间 (min.) | Remarks 备注 |
|----------------|--------------------------------|---------------------------|-----------|------------|------------------------------|-----------------------|----------------|--------------------------|---------------|
| | | Grade 等级 | ACC 合格 | Rej 不合格 | | | | | |
| 2C 1153-13 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C 1153-14 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C 1153-15 | B1 | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C 1153-16 | B1 | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C 1153-17 | ND | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-18 | B1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-19 | B1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-20 | B1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-21 | B1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-22 | B1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-23 | ND | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-24 | ND | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-25 | ND | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-26 | ND | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-27 | ND | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-28 | ND | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-29 | ND | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-30 | ND | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-31 | CB1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-32 | B1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-33 | CB1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-34 | B1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-35 | B1CB1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-36 | B1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-37 | B1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-38 | ND | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-39 | ND | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 2C 1153-40 | B1 | I | ✓ | | 25 | 1.5-4.0 | ASTM IB-9 | 2.0 | |
| 以下空白 | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Defect codes of casting 铸件缺陷代号说明:

A-Porosity 气孔, B-Slag 夹砂、夹渣, C A, C B, C C & C D-Shrinkage 缩松

D-Crack 裂纹, E-Hot Tear 热裂纹, F-Insert 嵌入物, ND-No significant discontinuity 无缺陷.

Defect codes of weld 焊缝缺陷代号说明:

P-Porosity 气孔, L-Inclusion 条渣条孔, IP-Incomplete penetration 未穿透, IF-Incomplete fusion 未熔合,

COV-Root Concavity 内凹, UC-Undercut 咬边, MA-Misalignment 错位, C-Crack 裂纹, ND-No significant discontinuity 无缺陷.



Evaluated by 评定者:

weiwai gao 高卫卫

Reviewed by 审核者:

Weidong. Li 李卫东

RT qualification level: RT-II

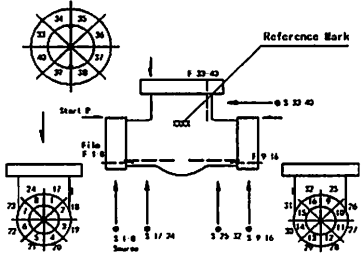
资格等级: RT-II



RT qualification level: RT-II

资格等级: RT-II

Date 日期: 2025-06-20

Date 日期: 2025-06-22

| | | | | | | | | | |
|--|--|--|------------------------|------------|---|-------------------------------|-------------------|-------------------------|---------------|
| <div>NEWAY</div> | | RADIOGRAPHIC TESTING REPORT 射线探伤报告 (Part I) | | | | 表码 N A S6830 01 | | | |
| | | | | | | 版本号 2022 | | | |
| | | | | | | Report No 2025RT-2C1153 | | | |
| Customer Name 客户名 | NEWAY VALVE (SUZHOU) CO., LTD 苏州纽威阀门股份有限公司 | Film No. 片号 | 2C1153 | | Test Date 检测日期 (年月日) | 2025-06-20 | | | |
| Inspection Lab. 检测单位 | NEWAY INDUSTRIAL (DAFENG) CO., LTD 纽威工业材料 (大丰) 有限公司 | Heat No. 产品炉号 | 396DV | | Material 产品材料 | A CB | | | |
| Product form 产品类型 | ■ Casting 铸件 | Product Name 产品名称 | ■ Body 阀体 | | Product spec 产品规格 | 16 GB | | | |
| Heat treat status 产品热处理状态 | ■ Solution 固溶 | Source type 射线源种类 | ■ Iridium 192 铱 192 | | IQ Location 像质计位置 | ■ Source side 源侧 | | | |
| Film type 胶片等级 | ■ Type II 胶片 II 级 | Brand 胶片商标 | ■ KODAK R 100 柯达 R 100 | | Film Size (mm): 胶片尺寸 (mm): | ■ 210*80 ■ 180*80 ■ 120*80 | | | |
| Screen size 增感屏 | ■ Ir192 0.2 0.2mm pb | SFD / FFD (mm) 焦距 (mm) | 100 | | IQ Sensitivity 像质计灵敏度 | 2.0% | | | |
| Focus Size (mm) 焦点尺寸 (mm) | ■ Ir192 3*3 | Radiographic Techniques RT 技术 | ■ SW SV 单壁单影 | | Test Procedure 方法标准 | ■ ASME B16.34 & ASME E91 | | | |
| Acceptance Std. & Criteria 可接收标准 | ■ T ≤ 50mm A2 B3 CA2 CB3 CC3 CD3 ■ S-RT | Std. of Reference Radiograph 评定标准 | ■ E 116 | | Voltage 管电压 (kV) | | | | |
| | | | | | Current 管电流 (mA) | | | | |
| | | | | | Activity 源活度 (Ci) | 19 | | | |
| <div></div> | | | | | | | | | |
| Film No. 片号 | Indication description 缺陷描述 | Evaluate Result 片子评定结果 | | | Thickness range 壁厚范围 (mm) | Density range 黑度范围 | IQ Index 像质计型号 | Exp. time 曝光时间 (min) | Remarks 备注 |
| | | Grade 等级 | ACC 合格 | Rej 不合格 | | | | | |
| 2C1153-1 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C1153-2 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C1153-3 | BI | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C1153-4 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C1153-5 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C1153-6 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C1153-7 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C1153-8 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C1153-9 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C1153-10 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C1153-11 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| 2C1153-12 | ND | I | ✓ | | 35 | 1.5-4.0 | ASTM IB-10 | 3.5 | |
| Defect codes of casting 铸件缺陷代号说明: A-Porosity 气孔, B-Shut 夹砂, C-CA, B, CC, CD-Shrinkage 缩松 D-Crack 裂纹, E-Hot Tear 热裂纹, F-Insert 嵌入物, ND-No significant discontinuity 无缺陷. | | | | | | | | | |
| Defect codes of weld 焊缝缺陷代号说明: P-Porosity 气孔, L-Inclusion 夹杂, D-Incomplete penetration 未熔透, B-Incomplete fusion 未熔合, C-CAV-Root Concavity 内凹, U-Undercut 咬边, A-Misalignment 错边, C-Crack 裂纹, ND-No significant discontinuity 无缺陷. | | | | | | | | | |
| Evaluated by 评定者: | | Weiwei gao 高卫卫 | | | Reviewed by 审核者: | | Weidong 魏东 | | |
| RT qualification level RT-II 资格等级: RT-II | | | | | RT qualification level RT-II 资格等级: RT-II | | | | |
| Date 日期 2025-06-20 | | | | | Date 日期 2025-06-22 | | | | |

| | | | | | | |
|--|----------------|--|--------------|------------------|---|-------------------|
|  | | <h1 style="text-align: center;">Material Test Report</h1> <h2 style="text-align: center;">EN10204-2004 TYPE 2.2</h2> | | | Rev.No.: 2025 Report No.: MTR210049245A Page: 1 of 1 | |
| Customer | | SUNBELT SUPPLY CO. MAJOR INC. | | | | |
| P.O No. | | 88340-00 | | | | |
| PO Item NO. | Neway Item No. | Part Name | Material | Result | Product code | |
| 1 | 10049245-10 | BACKSEAT | 420-NC | Satisfactory | 4G6BA5-NC-ULE1P | |
| 1 | 10049245-10 | GASKET | 304+GRAPHITE | Satisfactory | 4G6BA5-NC-ULE1P | |
| 1 | 10049245-10 | GLAND | 420-NC | Satisfactory | 4G6BA5-NC-ULE1P | |
| 1 | 10049245-10 | GLAND FLANGE | A105N | Satisfactory | 4G6BA5-NC-ULE1P | |
| 1 | 10049245-10 | PACKING ASSEMBLY | EDP 17 | Satisfactory | 4G6BA5-NC-ULE1P | |
| 1 | 10049245-10 | SEAT RING | A105N+STL. 6 | Satisfactory | 4G6BA5-NC-ULE1P | |
| 1 | 10049245-10 | SPACER RING | 420-NC | Satisfactory | 4G6BA5-NC-ULE1P | |
| 2 | 10049245-20 | BACKSEAT | 420-NC | Satisfactory | 4G6BA5-NC-ULE1P | |
| 2 | 10049245-20 | GASKET | 304+GRAPHITE | Satisfactory | 4G6BA5-NC-ULE1P | |
| 2 | 10049245-20 | GLAND | 420-NC | Satisfactory | 4G6BA5-NC-ULE1P | |
| 2 | 10049245-20 | GLAND FLANGE | A105N | Satisfactory | 4G6BA5-NC-ULE1P | |
| 2 | 10049245-20 | PACKING ASSEMBLY | EDP 17 | Satisfactory | 4G6BA5-NC-ULE1P | |
| 2 | 10049245-20 | SEAT RING | A105N+STL. 6 | Satisfactory | 4G6BA5-NC-ULE1P | |
| 2 | 10049245-20 | SPACER RING | 420-NC | Satisfactory | 4G6BA5-NC-ULE1P | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| We hereby certify that material was manufactured, sampled, tested and inspected in accordance with the material specification and customer requirements. | | | | | | |
| Client Inspector | | Date | | Quality Director |  | Date 2025. 08. 19 |
| No. 666 Taishan Road, Suzhou New District, P.R. China Tel: 86-512-666-51365 | | | | | | |



MATERIAL TEST REPORT

EN 10204-2004 Type 3.1

TC No. 10049245-10(81405688)
PAGE: 7 OF 7

MATERIAL COMPONENTS AND PROPERTIES

| Material | Heat treatment | Temp ^o C (°F) | Holding time(h) | Cooling media | Furnace |
|---------------|----------------|--------------------------|-----------------|---------------|---------|
| ASTM A216 WCB | NORMALIZED | 850~950 (1562~1742°F) | 1H/25MM, >=1H | AIR | GAS |
| | | | | | GAS |
| | | | | | |
| | | | | | |

We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements.

| PART NAME | MATERIAL | HEAT NO. | CHEMICAL ANALYSIS | | | | | | | | | | | MECHANICAL PROPERTIES | | | | | | | |
|-----------|----------|------------------|-------------------|---------|---------|--------|--------|---------|---------|---------|---------|--------|--|-----------------------|-----------|-----------|-----------------|--------|--------|------------|-------------------------------|
| | | | C % | Mn % | Si % | S % | P % | Cr % | Ni % | Mo % | Cu % | V % | | | C.E. % | TS MPa | YS/Rp 0.2MPa | E % | R % | HARD HB | IMPACT TEST VALUE TEMP °C: |
| | | MAX. MIN. | 0.2300 | 1.2800 | 0.6000 | 0.0300 | 0.0350 | 0.5000 | 0.5000 | 0.2000 | 0.3000 | 0.0300 | | | | 655 | 250 | 22 | 35 | 237 | Avg. Min: |
| | | | | | | | | | | | | | | | | 485 | | | | | |

CE: C+Mn/6+ (Cr+Mo+V)/5+ (Ni+Cu)/15 ≤ 0.43

| | | | | | | | | | | | | | | | | | | | | |
|--------|---------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|-------|-----|-----|----|----|-----|--|
| BODY | ASTM A216 WCB | 396DV | 0.1550 | 1.0610 | 0.4740 | 0.0070 | 0.0250 | 0.0620 | 0.0230 | 0.0030 | 0.0130 | 0.0040 | | 0.348 | 530 | 370 | 33 | 48 | 146 | |
| BONNET | ASTM A216 WCB | 9DV59 | 0.1640 | 1.1410 | 0.4740 | 0.0060 | 0.0200 | 0.0450 | 0.0240 | 0.0020 | 0.0120 | 0.0020 | | 0.366 | 535 | 365 | 30 | 44 | 146 | |
| WEDGE | ASTM A216 WCB | 53UC5 | 0.2180 | 0.8150 | 0.4670 | 0.0130 | 0.0310 | 0.0760 | 0.0310 | 0.0150 | 0.0260 | 0.0010 | | 0.376 | 527 | 318 | 30 | 49 | 157 | |



MATERIAL TEST REPORT

EN 10204-2004 Type 3.1

TC No. 10049245-10(81405688)
PAGE: 6 OF 7

MATERIAL COMPONENTS AND PROPERTIES

| Material | Heat treatment | Temp °C (°F) | Holding time (h) | Cooling media | Furnace |
|----------------------|----------------|-----------------------------|------------------|---------------|----------|
| ASTM A182 F6a CL2-NC | QUENCHED | 1000 ~ 1020 (1832 ~ 1868°F) | 1H/25MM, >=1H | OIL COOLED | ELECTRIC |
| ASTM A182 F6a CL2-NC | TEMPERED | >= 675 (1247°F) | 1H/25MM, >=1H | AIR | ELECTRIC |
| ASTM A182 F6a CL2-NC | TEMPERED | >= 621 (1150°F) | 1H/25MM, >=1H | AIR | ELECTRIC |

We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements.

| PART NAME | MATERIAL | HEAT NO. | CHEMICAL ANALYSIS | | | | | | | | | | MECHANICAL PROPERTIES | | | | | | | | | | | | |
|-----------|-------------------------|--------------|-------------------|---------|---------|--------|--------|---------|---------|--|--|--|-----------------------|--|--|-----------|-----------------|--------|--------|------------|-------------------------------|------|---|---|--|
| | | | C % | Mn % | Si % | S % | P % | Cr % | Ni % | | | | | | | TS MPa | YS/Rp 0.2MPa | E % | R % | HARD HB | IMPACT TEST VALUE TEMP °C: | | | | |
| | | | | | | | | | | | | | | | | | | | | | Avg. | Min: | | | |
| | | MAX. MIN. | 0.1500 | 1.0000 | 1.0000 | 0.0300 | 0.0400 | 13.500 | 0.5000 | | | | | | | 585 | 380 | 18 | 35 | 229 | 200 | 1 | 2 | 3 | |
| STEM | ASTM A182 F6a CL2-NC | YLP011 | 0.1260 | 0.4000 | 0.3300 | 0.0010 | 0.0300 | 12.260 | 0.1100 | | | | | | | 807 | 621 | 23 | 60 | 217 | | | | | |



MATERIAL TEST REPORT
EN 10204-2004 Type 3.1

TC No. 10049245-10(81405688)
PAGE: 5 OF 7

MATERIAL COMPONENTS AND PROPERTIES

| Material | Heat treatment | Temp. ^o C (°F) | Holding time(h) | Cooling media | Furnace |
|---------------|----------------|---------------------------|-----------------|---------------|----------|
| ASTM A193 B7M | QUENCHED | >=850 (1562°F) | 1H/25MM, >=1H | OIL | ELECTRIC |
| ASTM A193 B7M | TEMPERED | >=620 (1148°F) | 1H/25MM, >=1H | AIR | ELECTRIC |


We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements.

We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements.

CHEMICAL ANALYSIS

MECHANICAL PROPERTIES

[illegible][illegible]

| | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|--|-------------------|------------------|------------------|---|------------------|------------------|------------------|------------------|------------------|--------|-------|-----|-------|-----|---------|------|-------------------|----|----------|
|  | | MATERIAL TEST REPORT EN 10204-2004 Type 3.1 | | | | TC No. 10049245-10(81405688) PAGE: 4 OF 7 | | | | | | | | | | | | | | | |
| MATERIAL COMPONENTS AND PROPERTIES | | | | | | | | | | | | | | | | | | | | | |
| Material | Heat treatment | Temp °C(°F) | Holding time(h) | Cooling media | Furnace | We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements. | | | | | | | | | | | | | | | |
| ASTM A105N | NORMALIZED | 850~920 (1562~1688°F) | 1H/25MM, ≥1H | AIR | ELECTRIC FURNACE | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| PART NAME | MATERIAL | HEAT NO. | CHEMICAL ANALYSIS | | | MECHANICAL PROPERTIES | | | | | | | | | | | | | | | |
| SEAT RING | ASTM A105N | MAX. MIN. | C | Mn | Si | S | P | Cr | Ni | Mo | Cu | V | C.E. | TS | YS/Rp | E | R | HARD | IMPACT TEST VALUE | | |
| | | | % | % | % | % | % | % | % | % | % | % | % | % | % | MPa | 0, 2MPa | % | % | HB | TEMP °C; |
| | | | 0.3500 0.6000 | 1.0500 0.6000 | 0.3500 0.1000 | 0.0400 0.0000 | 0.0350 0.0000 | 0.3000 0.0000 | 0.4000 0.0000 | 0.1200 0.0000 | 0.4000 0.0000 | 0.0800 | 0.362 | 518 | 341 | 34 | 66 | 139 | | | |
| CE: C+Mn/6+ (Cr+Mo+V) /5+ (Ni+Cu) /15 ≤ 0.43 | | | | | | | | | | | | | | | | | | | | | |
| | | AQ013 | 0.1900 | 0.9600 | 0.2000 | 0.0020 | 0.0070 | 0.0400 | 0.0100 | 0.0100 | 0.0200 | 0.0010 | | | | | | | | | |




TC No. 10049245-10(81405688)
PAGE: 3 OF 7

| Material | Heat treatment | Temp °C (°F) | Holding time (h) | Cooling media | Furnace |
|---|----------------|----------------|------------------|---------------|----------|
| ASTM A194 2HM | QUENCHED | ≥ 850 (1562°F) | 1H/25MM, ≥ 1H | OIL | ELECTRIC |
| ASTM A194 2HM | TEMPERED | ≥ 620 (1148°F) | 1H/25MM, ≥ 1H | AIR | ELECTRIC |
| We hereby certify that the material are manufactured, inspected and tested in accordance with the material specification and purchase order requirements. | | | | | |

CHEMICAL ANALYSIS

[illegible][illegible]

HT 396DV - 90V59 - 3501092236

|  | | MATERIAL TEST REPORT EN 10204-2004 Type 3.1 | | | | TC No. 10049245-10(81405688) PAGE: 2 OF 7 | | | |
|---|----------------------------|--|--------------------------------|---------|------------|--|----------------------------|--------------------------------|---------|
| PRODUCT TRACEABILITY TABLE | | | | | | | | | |
| SERIAL NO. | MATERIAL CODE AND HEAT NO. | | | TAG NO. | SERIAL NO. | MATERIAL CODE AND HEAT NO. | | | TAG NO. |
| | BODY ASTM A216 WCB | BONNET ASTM A216 WCB | WEDGE/DISC ASTM A216 WCB | | | BODY ASTM A216 WCB | BONNET ASTM A216 WCB | WEDGE/DISC ASTM A216 WCB | |
| 10049245-010-1 ✓ | 396DV ✓ | 9DV59 ✓ | 53UC5 | / | | | | | |

