



Job Detail Transaction Report

| | |
|-------------------------|--|
| Service Request Number | 1-84255915067 |
| LOB / SR Type / Subtype | HVAC-Equipment / L&M / Custom Quote |
| Service Site | DUPONT EXPERIMENTAL STATION DUPONT EXPERIMENTAL |

Report Date 02/27/2019

Page 1 of 6

SERVICE REQUEST (SR):

Status: Closed
Substatus: Closed
Hold Reason Code:
Hold Effective Date:
Agreement #:
Entitlement:
Priority: Routine
Requester: Cozza, Raul
Service Address: RT 141 LANCASTER PIKE
 WILMINGTON, DE, 19880-0000
Main Phone: (302) 218-9257
Work Phone: (302) 695-7842
Mobile Phone: (302) 218-9898
Email Address: raul.j.cozza@dupont.com

Branch: JOHNSON CONTROLS SALISBURY
 WILMINGTON CB - 0N28
Team: 260 Delmarva North Team SVC
SR Owner: Dolphin, Lynn
Created By: Dolphin, Lynn

Bill To Account: E I DUPONT DENEMOURS CO
AR Number: 1325779
PO #: 6501959950
Blanket PO #:
Work Order #:
Authorization #:
Tracking #:
Quoted Amount: \$4,971.71

| FINANCIAL SUMMARY | |
|-----------------------------------|------------|
| Work In Progress (WIP) | |
| WIP - Labor | \$0.00 |
| WIP - Expense | \$0.00 |
| WIP - Materials | \$0.00 |
| WIP - SubContract | \$0.00 |
| WIP - Fee Charges | \$0.00 |
| Total WIP | \$0.00 |
| Cost of Goods Sold (COGS): | |
| COGS - Labor | \$3,129.35 |
| COGS - Expense | \$0.00 |
| COGS - Materials | \$98.77 |
| COGS - SubContract | \$0.00 |
| COGS - Fee Charges | \$39.40 |
| Total COGS | \$3,267.52 |
| Revenue \$ | \$4,971.71 |
| Margin \$ | \$1,704.19 |
| Margin % | 34% |

(Note: The revenue and margin section are populated if revenue has been posted)

Service Requested: 6501959950
 CHILLER #8 ANNUAL MAINTENANCE (2019 YEAR-START)

 Refrigerant Leak Test chiller and Document Leaks Found (repair minor leaks, if possible)
 Furnish and Change Compressor Oil Filter, and Oil Return Filter-Drier
 Disassemble Compressor Coupling, Clean, & Check Cold Alignment
 Measure & Record Compressor Low-Speed Axial Thrust
 Reassemble Coupling and Re-Check Compressor Cold Alignment
 Vacuum out Compressor Motor and Change Air Filters
 Check all Chiller Controls, Safeties, and Low Voltage Electrical Connections
 Document all tasks and Provide DuPont with a Comprehensive Report

 Refrigerant & Oil Samples will be performed under a separate Quote

SERVICE PERFORMED SUMMARY:

| ACTIVITY - SCHEDULED DATE: | Assigned Technician | Activity # | Service Provided | Asset ID | Customer Tag | Serial Number | Model Number |
|----------------------------|---------------------|------------|---|-----------|--------------|---------------|--------------|
| 01/30/2019 | Kevin Fraze | 1-12PFSO8U | CHILLER #8 ANNUAL MAINTENANCE (2019 YEAR-START) | 1-FY0MJZY | CHILLER #8 | GACM117 | OTT4G2- |



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CONFIDENTIAL AND PROPRIETARY - FOR INTERNAL USE ONLY

Report Date 02/27/2019

Page 2 of 6

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|----------------------------|---------------------|------------|---|-----------|--------------|----------------|-----------------|
| | | | <p>RUN HOURS: 52,417 TOTAL STARTS: 2281</p> <ul style="list-style-type: none"> REMOVED REFRIGERANT & OIL SAMPLES, SHIPPED TO LAB FOR ANALYSIS. CONDITION of BOTH is NORMAL. ANALYTICAL REPORTS WILL BE SENT TO DUPONT (Expense covered under QUOTE# 1- 1280MMMWW) REPLACED MAIN OIL FILTER w/ 3 Micron (026-32386-000) REPLACED OIL RETURN FILTER-DRIER (C-413) (026-13508-000) CHECKED OIL HEATER OPERATION. VERIFIED OFFLINE SUMP SETTING @ 135F OIL SUMP LEVEL w/ PUMP RUNNING: 1/4" TSG CHECKED ALL CHILLER CONTROLS, SAFETIES, & LOW VOLTAGE ELECTRICAL CONNECTIONS **(see last page for HGPB issues)** CHECKED BOTH HIGH PRESSURE SWITCH CUTOFF PRESSURES OF 180PSIG & ALARM POINT ACTIVATION ON THE POWERHOUSE MAIN CONTROL SYSTEM VERIFIED RUPTURE DISK PRESSURE SWITCH CLOSURE AT 50PSIG & ALARM POINT ACTIVATION ON THE POWERHOUSE MAIN CONTROL SYSTEM REFRIG. LEAK TESTED ENTIRE CHILLER w/ ELECTRONIC DETECTOR <p>LEAKS DISCOVERED (01/30/19):</p> <ol style="list-style-type: none"> RUPTURE DISK GASKETS (BOTTOM OF BOTH DISKS) (SMALL) OIL COOLER REFRIG VAPOR RETURN LINE 1/2" ANGLE VALVE THREADS (SMALL) VAPOR RECOVERY ANGLE VALVE PACKING (SMALL) <p>** ALL LEAKS WERE REPAIRED 02/22/19 UNDER SR#: 1-84701513778</p> <ul style="list-style-type: none"> SHAFT SEAL OIL LEAKAGE RATE CALCULATED TO BE BETWEEN 2.58 - 3.61 ML/HR (OVER 74 HRS RUNTIME, BEFORE SHUTDOWN) | | | 864 | ZBES |
| 02/11/2019 | Kevin Frazee | 1-12SRMEFU | <p>COMPRESSOR ALIGNMENT CHECK: 67 PSIG / OIL SUMP @ 137F</p> <ul style="list-style-type: none"> DISASSEMBLED 1-7/8" YORK-FLEX COUPLING & CLEANED AXIAL SHIMS= 0.110" + 0.115" = 0.225" MEASURED MOTOR SHAFT FLOAT= 0.528" (ACCEPTABLE) <p>MOTOR TO COMP SHAFT CLEARANCE: Motor Full Forward= 3.463" Motor Full Back= 3.991" Float Total= 0.528" (0.500-0.565) (Min-Max)</p> <ul style="list-style-type: none"> MEASURED MOTOR COUPLING RIM RUNOUT= 0.005" / FACE RUNOUT= 0.002" MEASURED COMP SHAFT RADIAL RUNOUT: 0.002" / FACE RUNOUT= 0.000" MEASURED COMP AXIAL THRUST= 0.010"* (@ 67 PSIG) / 0.020" (@ 1 PSIG) <p>* SHAFT SEAL STARTED TO LEAK AT THIS DEPTH INTO THE COMPRESSOR * * ACTUAL THRUST COULD ONLY BE MEASURED AFTER REFRIGERANT RECOVERY * * THRUST DESIGN SPEC: 0.009" - 0.021" *</p> <ul style="list-style-type: none"> CHECKED TORQUE OF MOTOR FEET BOLTS MEASURED & RECORDED ALIGNMENT W/ DIALS (OFFSET, ANGLE, & AXIAL) ARE ALL WITHIN ACCEPTABLE TOLERANCE | 1-FY0MJZY | CHILLER #8 | GACM117 864 | OTT4G2- ZBES |

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DUPONT EXPERIMENTAL STATION
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Report Date 02/27/2019

Page 3 of 6

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| 02/20/2019 | Kevin Fraze | 1-12WBJXZ1 | <ul style="list-style-type: none"> • CLEANED MOTOR. VACUUMED OUT & INSPECTED INTERNALS • CHANGED BEARING OIL & AIR FILTERS (16x25x2 QTY-4) ** DISCOVERED 3 FILTERS STUCK IN BOTH DRIVE & OPPOSITE END AIR PLENUMS HEADING TOWARDS THE MOTOR'S STATOR / ROTOR. THESE FILTERS WERE RETRIEVED & REMOVED ** • REASSEMBLED DRIVE COUPLING, TORQUED HUBS TO SPEC (23 FT/LB) • REASSEMBLED COUPLING GUARD • CLEANED CHILLER & PREPPED FOR STARTUP ** DISCOVERED LEAVING CHILLED WATER TEMP SENSOR, FOR THE HOT GAS BYPASS CONTROLLER, OUT OF RANGE. ATTEMPTED REPLACEMENT OF SENSOR, BUT IT IS STUCK IN THE THERMOWELL. LEFT HGPB CONTROL DISABLED UNTIL REPAIRS CAN BE SCHEDULED AND COMPLETED ** • CHILLER WAS UNLOCKED AND STARTED BY DUPONT OPERATORS • OIL PRESSURE REGULATOR WAS ADJUSTED TO 38 PSID • CONDUCTED A THOROUGH INSPECTION AFTER SEVERAL HOURS OF RUN TIME • PERFORMANCE IS CURRENTLY NORMAL | 1-FY0MJZY | CHILLER #8 | GACM117 864 | OTT4G2- ZBES |



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DUPONT EXPERIMENTAL

CONFIDENTIAL AND PROPRIETARY - FOR INTERNAL USE ONLY

Report Date 02/27/2019

Page 4 of 6

WIP - Work In Progress

WIP Labor

| Date | Assigned Technician | Activity # | NxGen Row ID (Time Tracker) | Branch # | Labor Type / Cost Rate / Billing Product | Adjustment | Hours | Ext Amt |
|----------------------|---------------------|------------|-----------------------------|----------|--|------------|-------|---------|
| TOTAL - LABOR | | | | | | | 0.00 | \$0.00 |

WIP Expense

| Date | Assigned Technician | Activity # | NxGen Row ID | Branch # | Expense Type | Adjustment | Qty. | Ext Amt |
|------------------------|---------------------|------------|--------------|----------|--------------|------------|------|---------|
| TOTAL - EXPENSE | | | | | | | | \$0.00 |

WIP Material

| Date | Vendor / Buy Site | Activity # | Adjustment | Order # | Type of Order | Product | Description | Qty. | UOM | Unit Cost | Ext Amt |
|-------------------------|-------------------|------------|------------|---------|---------------|---------|-------------|------|-----|-----------|---------|
| TOTAL - MATERIAL | | | | | | | | | | | \$0.00 |

WIP SubContract

| Date | Vendor / Buy Site | Activity # | Adjustment | Order # | Type of Order | Product | Description | Qty. | Ext Amt |
|-----------------------------|-------------------|------------|------------|---------|---------------|---------|-------------|------|---------|
| TOTAL - SUB CONTRACT | | | | | | | | | \$0.00 |

WIP Fee-Charges

| Date | Accounting Event Name | Activity # | NxGen Row ID (Fee Tracker) | Product | Adjustment | Qty. | Ext Amt | |
|----------------------------|-----------------------|------------|----------------------------|---------|------------|------|---------|--------|
| TOTAL - FEE CHARGES | | | | | | | 0.00 | \$0.00 |



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CONFIDENTIAL AND PROPRIETARY - FOR INTERNAL USE ONLY

Report Date 02/27/2019

Page 5 of 6

COGS - Cost of Goods Sold

COGS Labor

| Date | Assigned Technician | Activity # | NxGen Row ID (Time Tracker) | Branch # | Labor Type/Cost Rate/Billing Product | Adjustment | Hours | Ext Amt |
|---------------------------------------|---------------------|------------|-----------------------------|----------|--------------------------------------|------------|-------|------------|
| 01/30/2019 | Kevin Frazee | 1-12PFSO8U | 1-12QAADNP | 0N28 | Regular / Regular / Chiller Heavy | | 4.00 | \$521.56 |
| 01/31/2019 | Kevin Frazee | 1-12PFSO8U | 1-12QABQ1U | 0N28 | Regular / Regular / Chiller Heavy | | 4.00 | \$521.56 |
| 02/11/2019 | Kevin Frazee | 1-12SRMEFU | 1-12TN3XTF | 0N28 | Regular / Regular / Chiller Heavy | | 7.00 | \$912.72 |
| 02/20/2019 | Kevin Frazee | 1-12SRMEFU | 1-12WKBBQJ | 0N28 | Regular / Regular / Chiller Heavy | | 2.00 | \$260.78 |
| 02/22/2019 | Kevin Frazee | 1-12WBJXZ1 | 1-12XNHEW1 | 0N28 | Regular / Regular / Chiller Heavy | | 4.00 | \$521.56 |
| 02/25/2019 | Kevin Frazee | 1-12WBJXZ1 | 1-12Y5W5S9 | 0N28 | Regular / Regular / Chiller Heavy | | 2.00 | \$260.78 |
| 02/27/2019 | Kevin Frazee | 1-12WBJXZ1 | 1-12YUX1N2 | 0N28 | Regular / Regular / Chiller Heavy | | 1.00 | \$130.39 |
| Sub Total - Labor Kevin Frazee | | | | | | | 24.00 | \$3,129.35 |
| TOTAL - LABOR | | | | | | | 24.00 | \$3,129.35 |

COGS Expense

| Date | Assigned Technician | Activity # | NxGen Row ID | Branch # | Expense Type | Adjustment | Qty. | Ext Amt |
|------------------------|---------------------|------------|--------------|----------|--------------|------------|------|---------|
| TOTAL - EXPENSE | | | | | | | | \$0.00 |

COGS Material

| Date | Vendor / Buy Site | Activity # | Adjustment | Order # | Type of Order | Product | Description | Qty. | UOM | Unit Cost | Ext Amt |
|-------------------------|-------------------|------------|------------|---------|---------------|---------------|---------------|------|------|-----------|-----------|
| 02/11/2019 | COGS-Materials | 1-12PFSO8U | | | | 026 13508 000 | 026 13508 000 | -1 | Each | \$25.31 | (\$25.31) |
| 02/11/2019 | COGS-Materials | 1-12PFSO8U | | | | 028 08312 001 | 028 08312 001 | 1 | Each | \$27.59 | \$27.59 |
| 02/11/2019 | COGS-Materials | 1-12PFSO8U | | | | 026 13508 000 | 026 13508 000 | 1 | Each | \$25.31 | \$25.31 |
| 02/11/2019 | COGS-Materials | 1-12PFSO8U | | | | 026 13508 000 | 026 13508 000 | -1 | Each | \$25.31 | (\$25.31) |
| 02/11/2019 | COGS-Materials | 1-12PFSO8U | | | | 392 10719 000 | 392 10719 000 | 1 | Each | \$45.87 | \$45.87 |
| 02/11/2019 | COGS-Materials | 1-12PFSO8U | | | | 026 13508 000 | 026 13508 000 | 1 | Each | \$25.31 | \$25.31 |
| 02/11/2019 | COGS-Materials | 1-12PFSO8U | | | | 026 13508 000 | 026 13508 000 | 1 | Each | \$25.31 | \$25.31 |
| TOTAL - MATERIAL | | | | | | | | | | | \$98.77 |

COGS SubContract

| Date | Vendor / Buy Site | Activity # | Adjustment | Order # | Type of Order | Product | Description | Qty. | Ext Amt |
|-----------------------------|-------------------|------------|------------|---------|---------------|---------|-------------|------|---------|
| TOTAL - SUB CONTRACT | | | | | | | | | \$0.00 |

COGS Fee-Charges

| Date | Accounting Event Name | Activity # | NxGen Row ID (Fee Tracker) | Product | Adjustment | Qty. | Ext Amt |
|---------------------------|-----------------------|------------|----------------------------|---------------------------|------------|-------|----------|
| 02/27/2019 | Fee-Charges | 1-12WBJXZ1 | 1-12YYACKS | FUEL_X | | 1.00 | \$2.50 |
| Sub Total - FUEL_X | | | | | | 1.00 | \$2.50 |
| 01/31/2019 | Mileage | 1-12PFSO8U | 1-12QABQ51 | Mileage - Company Vehicle | | 5.00 | \$4.50 |
| 01/31/2019 | Mileage | 1-12PFSO8U | 1-12QAADQX | Mileage - Company Vehicle | | 5.00 | \$4.50 |
| 02/11/2019 | Mileage | 1-12SRMEFU | 1-12TN3XXC | Mileage - Company Vehicle | | 10.00 | \$9.00 |
| 02/20/2019 | Mileage | 1-12SRMEFU | 1-12WKBBSF | Mileage - Company Vehicle | | 5.00 | \$4.50 |
| 02/24/2019 | Mileage | 1-12WBJXZ1 | 1-12XO73D1 | Mileage - Company Vehicle | | 5.00 | \$4.50 |
| 02/25/2019 | Mileage | 1-12WBJXZ1 | 1-12Y5W5VG | Mileage - Company Vehicle | | 1.00 | \$0.90 |
| 02/27/2019 | Mileage | 1-12SRMEFU | 1-12WKBBSF | Mileage - Company Vehicle | | -5.00 | (\$4.50) |

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CONFIDENTIAL AND PROPRIETARY - FOR INTERNAL USE ONLY

Report Date 02/27/2019

Page 6 of 6

| Date | Accounting Event Name | Activity # | NxGen Row ID (Fee Tracker) | Product | Adjustment | Qty. | Ext Amt |
|--|-----------------------|------------|----------------------------|--|------------|-------|---------|
| 02/27/2019 | Mileage | 1-12SRMEFU | 1-12WKBBSF | Vehicle Mileage - Company Vehicle | | 15.00 | \$13.50 |
| Sub Total - Mileage - Company Vehicle | | | | | | 41.00 | \$36.90 |
| TOTAL - FEE CHARGES | | | | | | 42.00 | \$39.40 |

AR Invoices

| Date | Invoice # | Related Invoice # | Revenue | Invoice / Credit Memo Sub - Total | Tax | Ext Amt |
|------------|---------------|-------------------|------------|-----------------------------------|--------|------------------------------------|
| 02/27/2019 | 1-84831169179 | | \$4,971.71 | \$4,971.71 | \$0.00 | \$4,971.71 |
| | | | \$4,971.71 | \$4,971.71 | \$0.00 | TOTAL - INVOICED \$4,971.71 |

UnReceived Orders

| Date | Vendor / Buy Site | Activity # | Order # | Type of Order | Product | Description | Var. Ord vs. Rec | Qty. | Ext Amt |
|----------------------------------|-------------------|------------|---------|---------------|---------|-------------|------------------|------|---------|
| TOTAL - UNRECEIVED ORDERS | | | | | | | | | \$0.00 |