



Job Detail Transaction Report

Service Request Number	1-58589405354
LOB / SR Type / Subtype	HVAC-Equipment / L&M / Custom Quote
Service Site	DUPONT EXPERIMENTAL STATION DUPONT EXPERIMENTAL

Report Date 12/29/2017

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**SERVICE REQUEST (SR):**

**Status:** In Progress  
**Substatus:** Review for Completion  
**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:** Reed, Tonia  
  
**Bill To Account:** E I DUPONT DENEMOURS CO  
**AR Number:** 1325779  
**PO #:** 6501823103  
**Blanket PO #:**  
**Work Order #:**  
**Authorization #:**  
**Tracking #:**  
**Quoted Amount:** \$8,030.75

FINANCIAL SUMMARY	
<b>Work In Progress (WIP)</b>	
WIP - Labor	\$5,106.64
WIP - Expense	\$0.00
WIP - Materials	\$1,528.65
WIP - SubContract	\$0.00
WIP - Fee Charges	\$81.00
<b>Total WIP</b>	<b>\$6,716.29</b>
<b>Cost of Goods Sold (COGS):</b>	
COGS - Labor	\$0.00
COGS - Expense	\$0.00
COGS - Materials	\$0.00
COGS - SubContract	\$0.00
COGS - Fee Charges	\$0.00
<b>Total COGS</b>	<b>\$0.00</b>
<b>Revenue \$</b>	<b>\$0.00</b>
<b>Margin \$</b>	<b>(\$6,716.29)</b>
<b>Margin %</b>	

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

CHILLER #8 REFRIGERANT LEAK REPAIRS (DEC. 2017)

TRANSFER R-134A CHARGE TO YORK CENTRAL RECOVERY TANK  
DOCUMENT WEIGHT OF CHARGE & CALCULATED PERCENTAGE LOSS BASED ON DESIGN

REPAIR OF THE FOLLOWING REFRIGERANT LEAK FOUND ON 11/27/17:  
COMPRESSOR PRE-ROTATION VANE SHAFT SEAL  
DISSMANTLE & REMOVE OLD SEAL ASSEMBLY  
FURNISH & INSTALL NEW SEAL ASSEMBLY WITH NEW ORINGS, GASKET, & FASTENERS  
PROPERLY SET & TORQUE SEAL

12" FREE-COOLING BUTTERFLY O-RING FLANGE SEALS  
RIG, DISSMANTLE, & REMOVE VALVE  
CLEAN VALVE & FLANGE SURFACES  
INSTALL NEW O-RING SEALS IN VALVE FLANGE FACES  
RE-INSTALL VALVE & PROPERLY TORQUE FLANGES  
\*(Does not include any additional repairs to valve if discovered & necessary upon removal)

COMPRESSOR OIL RESERVOIR ACCESS COVER GASKET  
REMOVE ACCESS COVER & OLD GASKET  
CLEAN COMPRESSOR & COVER SURFACES  
INSPECT RESERVOIR  
INSTALL NEW GASKET  
RE-INSTALL ACCESS COVER & PROPERLY TORQUE



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VERIFY TIGHTNESS OF ALL REPAIRS WITH NITROGEN PRESSURE TEST  
 PERFORM EVACUATION/DEHYDRATION, & VACUUM HOLD TEST  
 TRANSFER RECOVERED CHARGE BACK INTO CHILLER  
 PROVIDE DUPONT WITH EPA LEAK REPAIR DOCUMENTATION

**SERVICE PERFORMED SUMMARY:**

ACTIVITY - SCHEDULED DATE:	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial Number	Model Number
12/01/2017	Kevin Fraze	1-QWYMAMX	CHILLER #8 REFRIGERANT LEAK REPAIRS (2017 YEAR-END) DUPONT PO#: 6501823103 JCI QUOTE#: 1-QSIZO7X SR: 1-58589405354  • Material order for the Repair of the Following Refrigerant Leaks Discover on 11/27/17 during Routine Annual Maintenance:  <input type="checkbox"/> COMPRESSOR OIL RESERVOIR ACCESS COVER PLATE (SMALL) <input type="checkbox"/> COMPRESSOR PRE-ROTATION VANE SHAFT SEAL (MEDIUM) <input type="checkbox"/> 12" FREE-COOLING BUTTERFLY O-RING FLANGE SEALS (LARGE)	1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2-ZBES
12/04/2017	Kevin Fraze	1-QWYMAR9		1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2-ZBES
12/05/2017	Kevin Fraze	1-QWYMB2J		1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2-ZBES
12/08/2017	Kevin Fraze	1-QZB3OK0	12/08/17: • Removed Oil Reservoir Access Cover & Old Gasket • Cleaned Compressor & Cover Surfaces • Inspected Reservoir (Clean/Clear) • Installed New Gasket • Re-Installed Cover & Properly Torqued (14 Ft/Lbs)  12/11/17: • Dismantled & Removed Old Compressor Pre-Rotation Vane Shaft Seal Assembly • Installed New Control Shaft Seal w/ New Orings, Gasket, & Fasteners • Properly Set Full Open/Closed Positions & Torqued Seal ( • Installed New Seal Assembly with New Gasket, O-Rings, Control Shaft, and Bolts • Set to Appropriate Positioning and Torqued to Spec (Shaft=75 Ft/Lbs / Cover=35 Ft/Lbs) • Reconnected PRV Actuator, Checked, & Adjusted to Proper Travel  **MONITORING RECOMMENDED**: - There is a noticeable binding of the Internal PRV components at a certain position in the rotation, when stroked from OPEN to CLOSED manually by HAND (This was evident w/ both the Old & New Seal Assemblies). However, there seems to be no hesitation in the stroke when the Actuator Motor is in control. - Actuator Motor has Leaked a Sufficient amount of Hydraulic Fluid & should be "Topped Off"  12/12/17:	1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2-ZBES

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ACTIVITY - SCHEDULED DATE:	Assigned Technician	Activity #	Service Provided	Asset ID	Customer Tag	Serial Number	Model Number
			<ul style="list-style-type: none"> <li>Dismantled &amp; Removed 12" Free-Cooling Butterfly</li> <li>Removed Old Flange O-Rings</li> <li>Cleaned Flanges, O-Ring Grooves, &amp; Valve Internals</li> <li>Installed New Flange O-Ring Seals &amp; Greased Internal Seat Components</li> <li>Re-Installed Valve &amp; Torqued Bolts to 180 Ft/Lbs</li> <li>Pressurized with Nitrogen to 100psig &amp; Verified All Replaced Components were LEAK-FREE</li> </ul>				
12/19/2017	Kevin Frazee	1-QZB8I7L	<p>12/1/17 - 12/4/17:</p> <ul style="list-style-type: none"> <li>Performed Recovery of CHILLER #8's R-134A Charge to the YORK Central Recovery Tank to EPA Specification, Weighed, &amp; Documented.</li> </ul> <ul style="list-style-type: none"> <li>◇ TOTAL R-134A RECOVERED: 2,540 LBS (12/04/2017)</li> <li>◇ TOTAL DESIGN CHARGE: 3,250 LBS</li> <li>◇ DEFICIT = 710 LBS (21.8% LOW)</li> <li>◇ LAST DATE OF RECORDED CHARGE: 02/08/2017 (315 Days)</li> <li>◇ CHARGE at that TIME: 3,070 LBS</li> <li>◇ LEAK RATE (Based on EPA Formula)= 20%</li> </ul> <p>12/13/2017:</p> <ul style="list-style-type: none"> <li>Started Chiller Evacuation / Dehydration Process</li> <li>Performed a Double Evac., then allowed Vacuum Pump to run Overnight</li> </ul> <p>12/14/2017:</p> <ul style="list-style-type: none"> <li>CHILLER VACUUM LEVEL was @ 425 microns</li> <li>Performed a VACUUM HOLD TEST for 5 Hrs</li> <li>VACUUM RISE = 76.7microns/Hr (GOOD)</li> <li>Brought Chiller out of Vacuum, up to 5psig, with the Recovered R-134A in the Storage Tank</li> </ul> <p>12/19/2017:</p> <ul style="list-style-type: none"> <li>◇ ALL RECOVERED CHARGE WAS RE-INSTALLED: 2,540 LBS</li> </ul> <p><b>**CURRENTLY CHILLER IS STILL 710 LBS (21.8%) LOW on CHARGE**</b></p> <p><b>***RECOMMEND REFRIGERANT PURCHASE &amp; INSTALLATION TO ACHIEVE FULL TONNAGE***</b></p>	1-FY0MJZY	CHILLER #8	GACM117 864	OTT4G2- ZBES



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**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
12/01/2017	Kevin Frazee	1-QWYMAR9	1-QX8L9GB	0N28	Regular / Regular / Mechanical Heavy		9.50	\$890.14
12/04/2017	Kevin Frazee	1-QWYMAR9	1-QXVH85P	0N28	Regular / Regular / Mechanical Heavy		5.00	\$468.50
12/05/2017	Kevin Frazee	1-QWYMB2J	1-QY78N0K	0N28	Regular / Regular / Mechanical Heavy		4.00	\$374.80
12/06/2017	Kevin Frazee	1-QWYMB2J	1-QYK3Q9E	0N28	Regular / Regular / Mechanical Heavy		6.00	\$562.20
12/08/2017	Kevin Frazee	1-QZB3OK0	1-QZP3TQV	0N28	Regular / Regular / Mechanical Heavy		6.00	\$562.20
12/11/2017	Kevin Frazee	1-QZB3OK0	1-QZU6E0P	0N28	Regular / Regular / Mechanical Heavy		4.00	\$374.80
12/12/2017	Kevin Frazee	1-QZB3OK0	1-R08L9SH	0N28	Regular / Regular / Mechanical Heavy		4.00	\$374.80
12/13/2017	Kevin Frazee	1-QZB3OK0	1-R8PSYWL	0N28	Regular / Regular / Mechanical Heavy		4.00	\$374.80
12/15/2017	Kevin Frazee	1-QZB3OK0	1-R8PZJNX	0N28	Regular / Regular / Mechanical Heavy		4.00	\$374.80
12/19/2017	Kevin Frazee	1-QZB8I7L	1-RI152MB	0N28	Regular / Regular / Mechanical Heavy		4.00	\$374.80
12/20/2017	Kevin Frazee	1-QZB8I7L	1-RI152PE	0N28	Regular / Regular / Mechanical Heavy		4.00	\$374.80
<b>Sub Total - Labor Kevin Frazee</b>							54.50	\$5,106.64
<b>TOTAL - LABOR</b>							54.50	\$5,106.64

**WIP Expense**

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

**WIP Material**

Date	Vendor / Buy Site	Activity #	Adjustment	Order #	Type of Order	Product	Description	Qty.	UOM	Unit Cost	Ext Amt
12/04/2017		1-QWYMAR9		1-58591166983	AOMS PO	Freight		0			\$41.75
12/04/2017	PALL CORPORATION / EXTON	1-QWYMAR9		1-58634872576	Vendor PO	Write-In Product	OIL FILTER	2	EA	\$116.00	\$232.00
12/04/2017	Issues/Consumption from Stock	1-QWYMAR9				028 04353 000	028 04353 000	3	Each	\$4.05	\$12.15
12/04/2017	Issues/Consumption from Stock	1-QWYMAR9				028 16523 455	028 16523 455	4	Each	\$27.51	\$110.04
12/04/2017	Issues/Consumption from Stock	1-QWYMAR9				028 04522 000	028 04522 000	2	Each	\$4.56	\$9.12
12/04/2017	Issues/Consumption from Stock	1-QWYMAR9				064 43793 000	064 43793 000	1	Each	\$28.98	\$28.98
12/04/2017	Issues/Consumption from Stock	1-QWYMAR9				028 00781 000	028 00781 000	1	Each	\$12.32	\$12.32
12/04/2017	Issues/Consumption from Stock	1-QWYMAR9				221 11175 800	221 11175 800	2	Each	\$11.59	\$23.18
12/04/2017	Issues/Consumption from Stock	1-QWYMAR9				364 29573 000	364 29573 000	1	Each	\$977.90	\$977.90
12/04/2017	Issues/Consumption from Stock	1-QWYMAR9				021 11998 000	021 11998 000	1	Each	\$11.59	\$11.59
12/07/2017	GRAINGER	1-QWYMB2J		1-58695727856	ISP	35Z444	Eyebolt,3/8-16,1In.,With Shoulder	2	Each	\$3.10	\$6.20
12/07/2017	GRAINGER	1-QWYMB2J		1-58695727856	ISP	5H904	Spray Paint,Light Machine Gray,15 oz.	1	Each	\$7.22	\$7.22
12/07/2017	GRAINGER	1-QWYMB2J		1-58695727856	ISP	5H905	Spray Paint,Dark Machine Gray,15 oz.	1	Each	\$5.53	\$5.53
12/08/2017	BENZ HYDRAULICS INC	1-QWYMB2J		1-58724301358	PCARD	Write-In Product	O-RING LUBE	1		\$50.67	\$50.67
<b>TOTAL - MATERIAL</b>										\$1,528.65	

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**WIP SubContract**

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

**WIP Fee-Charges**

Date	Accounting Event Name	Activity #	NxGen Row ID (Fee Tracker)	Product	Adjustment	Qty.	Ext Amt
12/01/2017	Mileage	1-QWYMAR9	1-QX8L9O1	Mileage - Company Vehicle		10.00	\$9.00
12/04/2017	Mileage	1-QWYMAR9	1-QXVH88B	Mileage - Company Vehicle		10.00	\$9.00
12/05/2017	Mileage	1-QWYMB2J	1-QY7AUN6	Mileage - Company Vehicle		10.00	\$9.00
12/06/2017	Mileage	1-QWYMB2J	1-QYK3QCE	Mileage - Company Vehicle		10.00	\$9.00
12/11/2017	Mileage	1-QZB3OK0	1-QZU6E35	Mileage - Company Vehicle		10.00	\$9.00
12/11/2017	Mileage	1-QZB3OK0	1-QZP3TVJ	Mileage - Company Vehicle		10.00	\$9.00
12/18/2017	Mileage	1-QZB3OK0	1-R8PSZ41	Mileage - Company Vehicle		10.00	\$9.00
12/25/2017	Mileage	1-QZB817L	1-RI152OR	Mileage - Company Vehicle		10.00	\$9.00
12/25/2017	Mileage	1-QZB817L	1-RI152RU	Mileage - Company Vehicle		10.00	\$9.00
<b>Sub Total – Mileage - Company Vehicle</b>						90.00	\$81.00
<b>TOTAL - FEE CHARGES</b>						90.00	\$81.00



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**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	
							<b>TOTAL - LABOR</b>	0.00	\$0.00

**COGS Expense**

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

**COGS Material**

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

**COGS SubContract**

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

**COGS Fee-Charges**

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

**AR Invoices**

Date	Invoice #	Related Invoice #	Revenue	Invoice / Credit Memo Sub - Total	Tax	Ext Amt	
			\$0.00	\$0.00	\$0.00	<b>TOTAL - INVOICED</b>	\$0.00

**UnReceived Orders**

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