



QUOTED SERVICE REPORT

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Service Request Number: 1-84701513778

Status: Completed

Requestor: Raul Cozza

JOHNSON CONTROLS SALISBURY WILMINGTON CB - 0N28

812 First State Blvd
Wilmington, DE 19804-3573
(866) 589-9275

Service Site:

DUPONT EXPERIMENTAL STATION
DUPONT EXPERIMENTAL
Rt 141 Lancaster Pike
Wilmington, DE 19880-0000

Bill To:

E I DUPONT DENEMOURS CO
1325779
Attn Accounts Payable Department
Po Box 80040
Wilmington, DE 19880-0040

Purchase Order: 2600039091

Blanket Purchase Order:

Customer Authorization:

Customer Work Order:

Quoted Amount: \$4,317.97

Service Requested:

CHILLER #8 REFRIGERANT LEAK REPAIRS (FEB. 2019)

- ORDER, PICKUP, & DELIVER QTY-8 GARLOCK 3504 (G49B) 2"x 1/8"THK RING GASKETS
 - LOCKOUT RELIEF DEVICE 3-WAY VALVE
 - REMOVE ONE RUPTURE DISK AT A TIME FROM #8'S RELIEF TREE
 - THOROUGHLY CLEAN FLANGE FACE SURFACES & HARDWARE
 - INSPECT AND VERIFY RUPTURE DISK CONDITION
 - RE-INSTALL w/ NEW & APPROVED GASKETS & TORQUE FLANGES TO SPEC
 - ALL JOINTS WILL BE VERIFIED "LEAK-FREE" w/ ELECTRONIC REFRIGERANT LEAK DETECTOR
- AFTER INSTALLATION IS COMPLETED
- REMOVE AND REPLACE LEAKING 1/2" THREADED FLARE ANGLE VALVE ON THE OIL COOLER REFRIG. VAPOR RETURN LINE. SEAL WITH APPROPRIATE REFRIG GRADE LOCTITE
 - FILL OUT & PROVIDE EPA REFRIGERANT LEAK REPAIR DOCUMENTATION AT THE COMPLETION OF THE JOB

* FOUR Gaskets will be used in the repair and FOUR will remain with the Customer for future use *

*** Refrigerant Recover and Recharge is billing billed separately to DUPONT PO#: 2600034674 / JCI SR#: 1-84773414048 ***

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Version: Release # PHL 3

Lynn Dolphin

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
02/21/2019	1-12WT3EFA	Completed	<p>CHILLER #8 REFRIGERANT LEAK REPAIRS (FEB. 2019) JCI QUOTE#: 1-12WREHSD</p> <p>REFRIGERANT LEAKS DISCOVERED (01/30/19) on ANNUAL PM (SR#: 1-84255915067):</p> <ol style="list-style-type: none"> 1) Rupture Disk Gaskets (Bottom Of Both Disks) (Small) 2) Oil Cooler Refrig Vapor Return Line 1/2" Angle Valve Threads (Small) 3) Vapor Recovery Angle Valve Packing (Small) <p>*** Work performed / covered by SR#: 1-84773414048 / PO#: 2600034674 ***</p> <p>02/15/2019:</p> <ul style="list-style-type: none"> ◇ Refrigerant Charge was Recovered and Weighed ◇ Charge was 400 Lbs (12.3%) below Design <p>02/22/2019:</p> <ul style="list-style-type: none"> ◇ Recovered refrigerant was transferred back after Leaks (below) were fixed ◇ 400 Lbs of Additional Charge was added from Dupont's Tank Surplus ◇ Charge is now confirmed @ 100% Design weight (3,250 Lbs) <p>***</p> <p>02/21/2019:</p> <ul style="list-style-type: none"> - Ordered, Picked Up, & Delivered Qty-8 GARLOCK 3504 (G49B) 2"x 1/8"thk Ring Gaskets - Locked-Out Relief Device 3-Way Valve - Removed one Rupture Disk at a time from #8's Relief Tree - Removed old GARLOCK 3300 Gaskets - Thoroughly Cleaned Flange Face Surfaces & Hardware - Cleaned, Inspected, & Verified Rupture Disks were in Good Condition - Re-Installed both Disks w/ new 3504 Gaskets & Torqued Flanges to Spec (48 ft/lbs) 	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
02/27/2019	1-12X7PRCV	Completed	<p>02/22/2019:</p> <ul style="list-style-type: none"> - With the CHILLER internal pressure @ 0 PSIG, the 1/2" Threaded Flare Angle Valve on the Oil Cooler Refrig. Vapor Return Line was quickly Removed and Replaced by a new Valve with Refrig Grade Loctite Sealant on the Threads - The Chiller was then Pressurized up to 80 PSIG with Refrigerant Vapor from the Recovery Tank - Successful repair of all Leaks was confirmed by an Electronic Leak Detector - The CHILLER was then re-charged with 3,250 Lbs of R-134A <p>02/25/2019:</p> <ul style="list-style-type: none"> - A Follow-Up Verification Test was performed on 02/25/2019 and repairs were again Confirmed Successful w/ Electronic Leak Detector - Filled out & EPA Refrigerant Leak Repair Documentation at the Completion of the Job <p>* QTY-4 Gaskets will remain with the Customer for future use *</p> <p>*** JCI "Refrigerant Tracking" was performed under SR#: 1-84773414048</p> <p>***</p>	Kevin Frazee

Materials Used:
Description
SGS-R-2-3/600-1/8-G3504 QTY-8
SVC 1/2NPTX1/2SAE PACK A
CATCO BLUE RAGS (5LB BOX)
NRP FOAM INSULATION TAPE

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Refrigerant Tracking:											
Activity #	Action Taken	Type	Amount	Asset ID	Customer Tag	Serial Number	Model Number	Circuit ID	Circuit Tag	Leak Location	Leak Rate
No Refrigerant Activity Recorded To Date											

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Service Order Warranty Terms and Conditions

PARTS WARRANTY:

Johnson Controls, Inc. (JCI) warrants that original equipment, parts or components manufactured or labeled by JCI shall be free from defects in material and workmanship under normal usage and proper installation and maintenance for a period of one (1) year from the date of shipment. Equipment, parts or components not manufactured or labeled by JCI shall carry a warranty from defects in material and workmanship under normal usage and proper installation and maintenance for a period of ninety (90) days from the date of shipment. Notwithstanding the foregoing, in the event JCI is reasonably able to identify a warranty for a period longer than the ninety (90) days applicable to equipment, parts or components not manufactured or labeled by JCI, it will assign all assignable rights under such warranty to Customer and reasonably cooperate in the enforcement of any warranty claim. Recertified or replacement parts installed on equipment and still under the original equipment manufacturer's warranty are covered for ninety (90) days or the remainder of the original equipment manufacturer warranty period, whichever is longer. For large tonnage chillers, JCI will warrant under normal usage and proper installation and maintenance for a period of one (1) year from the date of shipment: screw compressors, motors, control panels and components, VFD's and components and Liquid Cooled Solid State Starters and components. For small tonnage chillers, JCI will warrant under normal usage and proper installation and maintenance for a period of one (1) year from the date of shipment: scroll compressors, condenser coils, control panels and components, screw compressors (DXS and Mustang), and fan motors. In the event of a valid warranty claim, the Customer's remedy shall, at JCI's sole discretion and subject to the exclusions herein, be limited to repair or replacement of the subject equipment, part or component conditioned upon the return to JCI of any defective equipment, part or component. This Parts Warranty does not cover any shipping, handling or transportation charges or any associated labor costs.

LABOR WARRANTY:

Johnson Controls, Inc. (JCI) warrants its workmanship or that of its agents in relation to installation of materials for a period of ninety (90) days from date of installation or with respect to service work for a period of ninety (90) days from the date of service. Customer acknowledges that re-performance shall be its exclusive and only remedy with regards to any services provided by JCI. Customer shall bear all labor costs associated with the repair or replacement of failed material that is outside the scope of this express labor warranty. All warranty labor shall be executed during JCI normal business hours.

These warranties do not extend to any equipment which has been repaired by others, abused, altered, or misused in any way, or which has not been properly and reasonably maintained.

THESE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY AND FITNESS FOR A SPECIFIC PURPOSE. UNDER NO CIRCUMSTANCES SHALL JCI BE LIABLE FOR ANY SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES ARISING FROM OR RELATING TO ANY DEFECT IN MATERIAL OR WORKMANSHIP OF EQUIPMENT OR THE PERFORMANCE OF SERVICES.

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