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QUOTED SERVICE REPORT

Service Request Number: 1-63565108321

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: 6501864525

Blanket Purchase Order:

Customer Authorization:

Customer Work Order:

Quoted Amount: \$7,793.22

Service Requested:

6501864525

CHILLER #7 OIL SEPARATOR REPAIRS & COMMISSIONING

Isolate Oil Separator

Repair Refrigerant Leaks Discovered on 1-1/4 Flange and Two Sightglasses

Leak Test, Evacuate, Recommission.

Replacement of Blown Insertion Heater Fuses

Multiple Additions of Oil to Maintain Proper Compressor Sump Level (through the duration of Oil Separator being Offline)

Multiple Removals of Oil to Maintain Proper Compressor Sump Level (once Oil Separator was back Online and properly returning Oil to Sump)

Service Provided:

Date	Activity Number	Activity Status	Work Performed	By
03/08/2018	1-SAJAPW3	Completed		Kevin Frazee

For Questions Regarding Service, Please Contact:

Version: Release # PHL 3

Lynn Dolphin

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/09/2018	1-SHOT2OL	Completed	<p>03/08/2018:</p> <ul style="list-style-type: none"> - Removed all residual Oil from Oil Separator and safely Vented Nitrogen Pressure Outdoors. - Removed Leaking Flanges, Interconnecting Piping, and Prepped for Repairs. <p>03/09/2018:</p> <ul style="list-style-type: none"> - Cut off damaged 1-1/4" Pipe Threads. - Cleaned and Re-Threaded Pipe. - Installed New Threaded Flange (both Sides) with Refrigerant Grade Loctite Thread Sealant and 1/8" GARLOCK GYLON 3504 (GB49B) Gasket. Torqued to 100 Ft/Lbs - Removed Both Leaking Sight Glasses. - Cleaned out Oil Separator Vessel. - Cleaned Internal Threads, Installed New Sight-Glasses w/ Refrigerant Grade Loctite Thread Sealant. 	Kevin Frazee
03/16/2018	1-SPQKP5Z	Completed		Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/20/2018	1-T10B020	Completed	<p>03/20/2018:</p> <p>- Re-Engaged Oil Separator System, Adjusted Valves Appropriately, & Verified Proper Operation.</p> <p>CHILLER TOTAL RUNTIME: 88,898Hrs SUMP OIL LEVEL rose to approximately 1FT above the Top Sight Glass REMOVED Approx. 20 Gallons Level now @ 1/4 TSG</p> <p>03/22/2018:</p> <p>CHILLER TOTAL RUNTIME: 88,932.5Hrs SUMP OIL LEVEL was again above the Top Sight Glass REMOVED Approx. 17 Gallons Level now @ 1/4 TSG TOTAL OIL REMOVED since Re-Engaging Oil Separator System= 37 Gallons</p> <p>- Isolated Oil Return Filter-Drier. Removed and Replaced Drier Core, Evacuated, Re-Opened Valves, and Leak Tested. (No Leaks Found).</p>	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/22/2018	1-SIS9T02	Completed	<p>03/12/2018:</p> <ul style="list-style-type: none"> - Compressor Oil Sump Level had fallen to 1" above the Bottom Sight Glass due to the Oil Separator Isolation. - 14 Gallons of YORK "K" Oil (Customer Provided) was added to achieve 3/4 TSG Level <p>CHILLER TOTAL RUNTIME: 88,693Hrs SINCE LAST START: 28d19h28m TOTAL OIL ADDED SINCE LAST START: 36 Gallons</p> <ul style="list-style-type: none"> - Pressurized Oil Separator System with Nitrogen and R-134A Trace Gas, and Verified Repairs with Electronic Leak Detector and Soap Bubbles. (NO LEAKS FOUND). - Due to Excessive Oil Trapped in Evaporator and the Increase of Refrigerant Level, 470 Lbs of Refrigerant was temporarily transferred into the YORK Central Recovery Tank (to prevent potential carry-over into Compressor, until Oil Separator System is Re-Engaged) <p>03/19/2018:</p> <ul style="list-style-type: none"> - Safely Vented Nitrogen Pressure from Separator System Outdoors. - Evacuated System and performed Vacuum Hold Test. (Good) - Added 10 Gallons of YORK "K" Oil (Customer Supplied) to Separator Vessel, to cover Oil Heaters. - Opened all Refrigerant Isolation Valves. - Unlocked and Energized Oil Heaters. - Discovered South Heater not Functioning, and one 3Amp Fuse Blown in Motor Controller. - Each Heater is Rated for 2KW @ 480VAC. Normal Current draw is 4 Amps each. - Removed Fuses, Installed 4.5Amp Fuses, Re-engaged power, and Verified Proper Operation and Current Draw of both. 	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
			NORTH HEATER: 4A @ 478V = 1912W SOUTH HEATER: 4A @ 478V = 1912W	
03/30/2018	1-T9K07N3	Completed	03/30/2018: - Returned the 470lbs of temporarily stored refrigerant from the Central Recovery Tank back to Chiller #7. - Verified Proper Operating Levels of Evaporator Refrigerant and Compressor Oil Sump - All Systems are back to NORMAL. - Documented worked performed.	Kevin Fraze

Materials Used:
Description
16OZ COOL GEL HT BAR
1/2 PT GRIP THRD SEALANT
3/4 WOOD HDL DOPE BRSH
1 QT DARK CUTTING OIL
Assorted Refrig. Ring Gaskets
SHIPPING CHARGE
HIGH-PRESSURE SIGHT FOR CLEAR LIQUID, NICKEL-PLATED STEEL, 2 NPT MALE
THICK-WALL SEAMLESS STEEL PIPE, THREADED ON BOTH ENDS, 1-1/4 PIPE SIZE, 14" LONG
CAP FOR 3/8" TUBE OD PRECISION COMPRESSION FITTING FOR COPPER TUBE
MEDIUM-PRESSURE STEEL PIPE FLANGE, 1-1/4 NPT
THREADLOCKER, LOCTITE 086, 8.45 OZ. BOTTLE

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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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