



QUOTED SERVICE REPORT



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Service Request Number: 1-60506490261

Status: Scheduled

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: 6501861449

Blanket Purchase Order:

Customer Authorization:

Customer Work Order:

Quoted Amount: \$4,315.49

Service Requested:

Chiller #10 Annual Maintenance (MARCH. 2018)

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

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Lynn Dolphin

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/19/2018	1-SPQKPBQ	Completed	<p>CHILLER #10 ANNUAL MAINTENANCE (2018): DUPONT PO#: 6501861449 QUOTE#: 1-QNILN2A SR#: 1-60506490261</p> <p>RUN HOURS: 41,092 / STARTS: 1355</p> <ul style="list-style-type: none"> REMOVED REFRIGERANT SAMPLE & SHIPPED TO LAB FOR ANALYSIS. Condition is NORMAL. (Expense covered under QUOTE# 1-QLCJ7O1) REMOVED OIL SAMPLE FROM COMPRESSOR SUMP & SHIPPED TO LAB FOR ANALYSIS. Condition is NORMAL. (Expense covered under QUOTE# 1-QLCJ7O1) REPLACED MAIN OIL FILTER (w/15u 026-11225-000) REPLACED OIL RETURN FILTER-DRIER (C-413) CHECKED OIL HEATER OPERATION. OFFLINE SUMP TEMP IS 130F OIL SUMP LEVEL W/ PUMP RUNNING: 1/4" BELOW TSG 	Kevin Frazee
03/22/2018	1-T0ZN3RA	Completed	<ul style="list-style-type: none"> CHECKED ALL CHILLER CONTROLS, SAFETIES, & LOW VOLTAGE ELECTRICAL CONNECTIONS VERIFIED BOTH HIGH PRESSURE SWITCH CUTOUT 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 CLEANED MOTOR. VACUUMED OUT INTERNALS. CHANGED BEARING OIL & AIR FILTERS (16x25x2 QTY-4) 	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/26/2018	1-T5UNYR5	Completed	<ul style="list-style-type: none"> • PREPPED FOR STARTUP • DOCUMENTED ALL ANNUAL MAINTENANCE TASKS PERFORMED & PROVIDED DUPONT WITH COMPREHENSIVE REPORT (INCLUDING OIL AND REFRIGERANT ANALYSIS REPORTS) <p>03/28/2018:</p> <ul style="list-style-type: none"> • PER DUPONT'S REQUEST, MOTOR ALIGNMENT AND REFRIGERANT LEAK REPAIRS WILL BE PERFORMED AT A LATER DATE. • REASSEMBLED DRIVE COUPLING, TORQUED HUBS TO SPEC (23 FT/LB) • REASSEMBLED COUPLING GUARD • CHILLER WAS THEN UNLOCKED, STARTED, AND TEST RAN FOR 1 HOUR • CHILLER PERFORMANCE IS NORMAL AT THIS TIME <p>*** HEAVY VIBRATION still exists In Oil Pump and Oil Piping. Recorded Vibration Data from Both. Will Analyze Data & Inform Dupont of Recommendations ***</p>	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
03/28/2018	1-T53FZTS	Completed	<p>COMPRESSOR ALIGNMENT CHECK: 70PSIG / OIL SUMP @ 130F</p> <ul style="list-style-type: none"> • DISASSEMBLED 1-7/8" YORK-FLEX COUPLING & CLEANED • AXIAL SHIMS= 0.130" + 0.115" = 0.245" • MEASURED MOTOR SHAFT FLOAT= 0.5225" (ACCEPTABLE) <p>MOTOR TO COMP SHAFT CLEARANCE: Motor Full Forward= 3.450" Motor Full Back= 3.9725" Float Total= 0.5225" (0.500-0.565) (Min-Max)</p> <ul style="list-style-type: none"> • MEASURED MOTOR COUPLING RIM RUNOUT= 0.003" / FACE RUNOUT= 0.002" • MEASURED COMP SHAFT RADIAL RUNOUT: 0.003" / FACE RUNOUT= 0.000" • MEASURED COMP AXIAL THRUST= 0.016" (w/ Jack Screw) <ul style="list-style-type: none"> • CHECKED TORQUE OF MOTOR FEET BOLTS • RECORDED ALIGNMENT w/LASER & DIALS * ALIGNMENT IS CURRENTLY OUT OF TOLERANCE (Details will be forwarded to DuPont)* <ul style="list-style-type: none"> • CLEANED CHILLER <ul style="list-style-type: none"> • REFRIGERANT LEAK TESTED ENTIRE CHILLER. LEAKS DISCOVERED: <ol style="list-style-type: none"> 1. OIL COOLER THERMOSTATIC VALVE O-RING SEAL (SMALL) 2. 2" HOT-GAS NORRISEAL BUTTERFLY FLANGE SEALS (MEDIUM) 3. GASKETS ON BOTH RUPTURE DISKS (MEDIUM) 4. HIGH SPEED THRUST COVER PLATE O-RING SEAL (SMALL) 5. 3/8" COPPER FLARE ON OIL-RETURN LINE (SMALL) 	Kevin Frazee

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			<ul style="list-style-type: none"> • CREATED QUOTE FOR REPAIR OF LEAKS NOTED ABOVE <p>*** On 03/15/2017 there appeared to be two small oil leaks discovered around the supports for the 3/4" Supply & Return Oil Pipes directly behind the Auxiliary Power Panel. During this year's Annual Maintenance, the piping support clamps were removed, pipes cleaned, and leak tested. NO LEAKS WERE FOUND. The bubbles found last year must have been created by high temp and high vibration.***</p>	

Materials Used:	
Description	

Refrigerant Tracking:									
Activity #	Action Taken	Type	Amount	Asset ID	Customer Tag	Serial Number	Model Number	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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