



QUOTED SERVICE REPORT

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Service Request Number: 1-46632636274

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: 6501700761

Blanket Purchase Order:

Customer Authorization:

Customer Work Order:

Quoted Amount: \$4,740.10

Service Requested:

6501700761

Chiller #9 Annual Maintenance 2017

Remove Refrigerant Sample for Chemical Analysis
Refrigerant leak test chiller and document leaks found (repair minor leaks, if possible)
Furnish and Change Compressor Oil Filter, and Oil Return Filter-Drier
Furnish & Install Sight-Glass in Oil Return Line
Change Compressor Oil w/ YORK J (Provided by DuPont)
Disassemble Compressor Coupling and Check Cold Alignment
Check Low-Speed Compressor Axial Thrust Reading
Reassemble Coupling and Re-Check Compressor Coupling Cold Alignment
Vacuum out Compressor Motor and Change Air Filters
Change Oil in Compressor Motor Bearings (Provided by DuPont)
Check all Chiller Controls, Safeties, and Low Voltage Electrical Connections
Documents all tasks and Provide Comprehensive Report to DuPont

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Version: Release # PHL 3

Lynn Dolphin

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
02/10/2017	1-LF7V8LT	Completed	<p>CHILLER #9 ANNUAL MAINTENANCE: DuPont PO#: 6501700761</p> <p>RUN HOURS: 44,840 TOTAL STARTS: 1999</p> <ul style="list-style-type: none"> • REMOVED REFRIGERANT SAMPLE FROM R-134A RECOVERED FROM CHILLER & SHIPPED TO LAB FOR ANALYSIS (will forward report to DuPont upon receipt) • REMOVED OIL SAMPLE FROM COMPRESSOR SUMP & SHIPPED TO LAB FOR ANALYSIS (Expense covered under QUOTE# 1-JV664S7) • REPLACED MAIN OIL FILTER • REPLACED OIL RETURN FILTER-DRIER (C-413) • CHECKED OIL HEATER OPERATION. INCREASED OFFLINE SUMP SETTING TO 135F 	Kevin Frazee
02/14/2017	1-LH9X0LE	Completed	<ul style="list-style-type: none"> • CLEANED MOTOR. VACUUMED OUT INTERNALS. CHANGED BEARING OIL & AIR FILTERS (16x25x2 QTY-4) • TIGHTENED MOTOR FEET BOLTS • RECORDED ALIGNMENT w/LASER BEFORE DRIVE COUPLING DISASSEMBLY • DISASSEMBLED 1-7/8" YORK-FLEX COUPLING • AXIAL SHIMS= 0.273" • MEASURED MOTOR SHAFT FLOAT= 0.515" (ACCEPTABLE) <p>MOTOR TO COMP SHAFT CLEARANCE: Motor Full Forward= 3.420" Motor Full Back= 3.935" Float Total= 0.515" (0.500-.565) Min-Max)</p> <ul style="list-style-type: none"> • MEASURED MOTOR COUPLING RIM RUNOUT= 0.001" • MEASURED COMP SHAFT RADIAL RUNOUT: 0.001" • MEASURED COMP AXIAL THRUST= 0.014" @ 0 PSIG 	Kevin Frazee

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Date	Activity Number	Activity Status	Work Performed	By
02/15/2017	1-LJ8TYDK	Completed	<ul style="list-style-type: none"> • REFRIGERANT LEAK TESTED ENTIRE CHILLER NEW LEAKS DISCOVERED & FIXED: 1. 1-1/2" THREADED PLUG ON LIQUID REFRIG TEE FEEDING OIL COOLER. (MEDIUM) • REPLACED PLUG WITH BUSHING AND 3/4" BALL VALVE FOR FUTURE ACCESS. OLD LEAKS FIXED: 1. REPLACED LEAKING SHAFT SEAL (UNDER QUOTE#: 1-LEYOVW1) 	Kevin Frazee
02/21/2017	1-LOVI6RP	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. 	Kevin Frazee
02/22/2017	1-LPTIRDH	Completed	<ul style="list-style-type: none"> • DISCOVERED OIL RETURN SOLENOID VALVE SEVERELY CORRODED. REPLACED VALVE & INSTALLED INLINE SIGHT GLASS. • DISCOVERED OIL RETURN ANGLE SERVICE VALVE SEVERELY CORRODED & SEIZED. REPLACED VALVE AND INSTALLED NEW INTERCONNECTING PIPING. 	Kevin Frazee
02/23/2017	1-LPXZ5N	Completed	<ul style="list-style-type: none"> • DRAINED OLD OIL CHARGE & INSTALLED 15 GALLONS OF NEW YORK "J" OIL SUPPLIED BY CUSTOMER. • REASSEMBLED DRIVE COUPLING & RECHECKED/RECORDED COLD ALIGNMENT. 	Kevin Frazee
02/28/2017	1-LRZTHZH	Completed	<ul style="list-style-type: none"> • DOCUMENTED ALL ANNUAL MAINTENANCE TASKS PERFORMED AND PROVIDED DUPONT WITH COMPREHENSIVE REPORT (INCLUDING OIL AND REFRIGERANT ANALYSIS REPORTS) 	Kevin Frazee

Materials Used:	
Description	
MUELLER 1/2MPT X 1/2MFL	

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Materials Used:
Description
SVC 1/2"FL TUFFY SHUT- O
SVC 3/8"FL TUFFY SHUT- O
SUPERIOR 1/2NPTX3/8SAE P
BRASS COMP TEE 1/4"
BRASS HALF UNION 1/4" OD
BRASS COMP COUPLING 1/4"
SPORLAN 3/8" FLXSWIV NUT
KANO AEROKROIL SPRAY 10
NRP SEAL GASKETS F/1/2"
NRP SEAL GASKET F/1/4" C
NRP REPL MIRROR RECT FOR
NRP INSP MIRROR RECT 2-1
CATCO BLUE RAGS (5LB BOX
Solenoid Valve,2/2,1/4 In,NC,120V,Bras
Disp Glvs,Nitrile,6 Mil,M,12 In,Blk,PK
P/A VALUE PLEAT FILTER 3
BRASS 3/8" FLARE CAP HEX

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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