



QUOTED SERVICE REPORT

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Service Request Number: 1-83610966508

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: 6501955455

Blanket Purchase Order:

Customer Authorization:

Customer Work Order:

Quoted Amount: \$18,467.21

Service Requested:

CHILLER #10 COMPRESSOR OIL PUMP REPLACEMENT

TRANSFER ENTIRE R-134A CHARGE TO YORK CENTRAL RECOVERY TANK
 DOCUMENT WEIGHT OF CHARGE AND CALCULATED PERCENTAGE LOSS BASED ON DESIGN
 DRAIN & DISPOSE OFF THE COMPRESSOR OIL CHARGE (INTO DUPONT APPROVED WASTE OIL DRUMS)
 REMOVE FAULTY OIL PUMP
 FURNISH & INSTALL A NEW YORK OEM REPLACEMENT PUMP
 ENSURE ALIGNMENT OF PUMP & PIPING IS SUCH TO PREVENT EXCESSIVE STRESS
 FURNISH & INSTALL 10 GALLONS OF NEW YORK "J" OIL
 VERIFY LEAK TIGHTNESS OF PUMP, FITTINGS, & PIPE WITH A NITROGEN PRESSURE TEST
 VERIFY PROPER OPERATION OF PUMP BEFORE RE-INSTALLING THE REFRIGERANT CHARGE (ELECTRICAL & HYDRAULIC PERFORMANCE)
 EVACUATE / DEHYDRATE CHILLER & PERFORM VACUUM HOLD TEST
 TRANSFER RECOVERED CHARGE BACK INTO CHILLER
 PROVIDE DUPONT WITH EPA REFRIGERANT DOCUMENTATION

Service Provided:

Date	Activity Number	Activity Status	Work Performed	By
01/02/2019	1-12GNBILE	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
01/11/2019	1-12HH79BT	Completed	<p>CHILLER #10's Oil Pump Failure was discovered on 12/07/2018, after completing Leak Repair Work SR#:1-63695549302: "Proceeded to Check Operation of Controls & Discovered the Compressor Oil Pump would not make Oil Pressure, was Over-Amping >12A (Normal FLA=3A), and tripping on Internal Overload. The Pump's significant noise and vibration was noted & documented on the last two Annual PMs, and Customer informed. (SR#'s 1- 47953222455 & 1-60506490261) FAILURE was imminent"</p> <p>12/19/2018 (42,866 HRS / 1436 STARTS):</p> <ul style="list-style-type: none"> • Performed Recovery of CHILLER #10's R-134A Charge. Transferred to YORK Central Recovery Tank according to EPA Specification, Weighed, & Documented <ul style="list-style-type: none"> ◊ TOTAL R-134A RECOVERED: 3,220 LBS (12/19/2018) ◊ TOTAL DESIGN CHARGE: 3,250 LBS ◊ DEFICIT = 30 LBS (0.9% LOW) ◊ LAST DATE OF RECORDED CHARGE: 12/07/2018 (12 Days) ◊ CHARGE at that TIME: 3,250 LBS • Broke Chiller's Recovery Vacuum w/ site supplied Nitrogen, Drained Oil from Compressor Sump and Consolidated into DuPont's Waste • Locked out Electric Service to #10's Auxiliary Panel • Disconnected / Removed Oil Pump Wiring, Conduit, and Piping • Removed Failed Oil Pump from Chiller • Thoroughly Cleaned and Inspected all Hydraulic Connections and temporarily capped to prevent ingress of air & moisture into Chiller 	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
01/18/2019	1-12KXX0UL	Completed	<ul style="list-style-type: none"> • Picked up , Delivered and Installed a New Compressor Oil Pump • Ensured Alignment of Pump & Piping was not Stressed • Installed New Flexible Seal-Tight Conduit and Wired Motor to Contactor • Removed, Inspected, Cleaned & Re-Installed Oil Pump Contactor Contacts • Furnished & Installed 10 Gallons of New YORK "J" Oil, and 5 Gallons of Customer-Supplied YORK "J" Oil to Achieve an Oil Sump Level of 3/4 TSG • Unlocked and Re-powered Aux. Panel, Tested Pump, & Verified Proper Operation (Electrically & Hydraulically) • Added R-134a Trace Gas from the Central Recovery Tank to the Chiller, up to 5 PSIG Static • Increased Chiller Pressure to 100 PSIG with Site supplied Nitrogen • Verified Leak Tightness Of Pump, Fittings, & Piping w/ Electronic Leak Detector & Soap Bubbles • Safely Released Nitrogen Pressure to Outdoors • Performed Chiller Evacuation / Dehydration Process • CHILLER VACUUM LEVEL reached 950 microns • Performed a VACUUM HOLD TEST for 1.5 Hrs • VACUUM RISE = 100 microns (66/hr) (GOOD) • Brought Chiller out of Vacuum, with the Recovered R-134A Charge from the Central Storage Tank 	Kevin Frazee

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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
01/23/2019	1-12N0HXIS	Completed	CHILLER RECHARGE (01/23/2019): ◇ ALL RECOVERED CHARGE WAS RE-INSTALLED= 3,220 LBS ◇ ADDITIONAL CHARGE ADDED FROM DUPONT'S TANK SURPLUS= 30 LBS ◇ CURRENT CHILLER CHARGE= 3,250 LBS (as of 01/23/2019) ◇ DESIGN CHARGE= 3,250 LBS ◇ CURRENT CHARGE DEFICIT= 0 LBS • Will provide DuPont with detailed EPA Refrigerant Conservation Report • Oil Pump performance will be rechecked, verified, & pressure regulator fine adjustments made, once CHILLER #10 is back in Operation (It currently remains to be out of service due to issues with the Condenser Waterbox)	Kevin Frazee
12/27/2018	1-12ERT6R7	Completed		Kevin Frazee

Materials Used:	
Description	
VALVE CONTROL / 022 08867 000	
PUMP OIL / 026 46627 002	
OIL, J, 5-GAL / 011 00558 000	

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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
1-12N0HXIS	Add Refrig Leak Test Repair	R-134a	30	1-FNV12L6	CHILLER #10	GACM127699	OTT4G2-ZBES	1-YEYJK5V	CHILLER #10	MECHANI CAL SEAL	7.49

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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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