



QUOTED SERVICE REPORT



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Service Request Number: 1-45941594047

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: 6501694234

Blanket Purchase Order:

Customer Authorization:

Customer Work Order:

Quoted Amount: \$3,342.27

Service Requested:

CHILLER #8 SHAFT SEAL REPLACEMENT:

Based on measurements take over the past 2 months CHILLER#8 seal oil leak has been calculated at 4.92ml/hr.

This is double the factory recommended max leak rate of 2.23ml/hr (signal point for replacement).

SCOPE:

REMOVE COMPRESSOR COUPLING HUB
REMOVE OLD SHAFT SEAL
CLEAN & INSPECT INTERNAL COMPRESSOR SHAFT SURFACES
CLEAN & RESUSE SHAFT SEAL COVER PLATE (if not damaged)
INSTALL NEW SHAFT SEAL COMPONENTS (COLLAR, SEAL, SPRINGS, O-RINGS)
CHECK FOR LEAKS & REASSEMBLE COUPLING

****REFRIGERANT RECOVERY, EVACUATION, & RE-CHARGE IS COVERED UNDER OTHER QUOTES****

For Questions Regarding Service, Please Contact:
Version: Release # PHL 3

Lynn Dolphin

(866) 589-9275



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Service Provided:				
Date	Activity Number	Activity Status	Work Performed	By
02/01/2017	1-LC1C2ZF	Completed	<p>CHILLER #8 SHAFT SEAL REPLACEMENT JOB</p> <p>DuPont PO#: 6501694234</p> <p>Based on measurements take over the past 2 months CHILLER #8 seal oil leak has been calculated at 4.92ml/hr. This is double the factory recommended max leak rate of 2.23ml/hr (signal point for replacement).</p> <ul style="list-style-type: none"> • Ordered Necessary Parts • Removed Compressor Coupling Hub • Removed Old Shaft Seal • Clean & Inspect Internal Compressor Shaft Surfaces • Cleaned & Resused Shaft Seal Cover Plate (No Damaged Detected) • Installed New Shaft Seal Components (Collar, Seal, Springs, O-Rings) 	Kevin Frazee
02/02/2017	1-LCE0W5O	Completed	<ul style="list-style-type: none"> • Pressurized Chiller with Nitrogen and leak tested newly installed shaft seal. • No leaks detected • Reassembled coupling and cleaned up job. 	Kevin Frazee
01/27/2017	1-L3TMB2R	Completed		Kevin Frazee
01/30/2017	1-L4SFYPH	Completed	No Comments	Kevin Frazee

Materials Used:
Description
SPRING HELICAL ASC / 029 13770 004
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0.3X.032X.81 13.6#/" MUSIC WIRE COM
WASHER 1 1 .020 2 / 064 13865 000
SCREW SHLD SOCKET HEAD 1 / 021 17294 000
SEAL-O-RING 4-1/2 ID X 1 / 028 11993 000

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Materials Used:
Description
RING SHAFT SEAL LTH & YDT / 029 20282 000
WASHER SHAFT SEAL TL-EA, / 064 47555 000
SEAL O RING 2-5/8 / 028 05194 000
COLLAR SHAFT SEAL / 064 47814 000

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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