



BY JOHNSON CONTROLS

SB0144

615

File In: N/A

## SERVICE BULLETIN

Affected YLAA  
Equipment:

**Subject: BITZER COMPRESSOR OIL LEVEL**

**Issue Date:** 6/15/2015

**Withdrawal Date:** 8/31/2015

**Data Control Level:** N/A

**Materials Needed:** Oil 011-00982-000 (5 gallon)  
011-00981-000 (1 quart can)

**Est. Time Required:** 8 hours max

**Warranty:** Yes

**KDD:** ###

### GENERAL

We have determined through specific testing of the YLAA model units installed with the Bitzer style compressor that improved reliability is obtained when additional oil is added to the system. Notifications were originally issued to branches in May 2014. In that communication the branch was instructed to take action and report as noted below in the procedure section.

Units affected include any system with a Bitzer 60182 (JCI 015-4560-XXX) or Bitzer 60154 (JCI 015-04561-XXX) compressor(s). Engineering, along with the factory have identified all the units requiring attention. Up to now, that list was communicated and action taken by most. Those listed in this bulletin are the units where no action has been taken OR communicated to PTS. If you have a unit in the following list you must follow this bulletin. Failure to do will result in the voiding of the unit warranty.

### SOLUTION

Oil should be added to each system as outlined below. Time and materials for work can be reimbursed through the warranty system. Failure to take appropriate action and report results will void the unit compressor warranty.

### PROCEDURE

Technicians will be required to follow the instructions attached and provide feedback per each question and send email to [chelsea.fauth.paley@jci.com](mailto:chelsea.fauth.paley@jci.com) with the results. Again, failure to complete the reporting portion of this action will void unit compressor warranty.

1. Identify system(s) equipped with compressors listed above.
2. Run the affected system(s) and load up all compressors.
3. Measure and record the suction and discharge super heat of affected system(s).

**Work on this equipment should only be done by properly trained personnel who are qualified to work on this type of equipment. Failure to comply with this requirement could expose the worker, the equipment and the building and its inhabitants to the risk of injury or property damage.**

**The instructions on this service bulletin are written assuming the individual who will perform this work is a fully trained HVAC & R journeyman or equivalent, certified in refrigerant handling and recovery techniques, and knowledgeable with regard to electrical lock out/tag out procedures. The individual performing this work should be aware of and comply with all Johnson Controls, national, state and local safety and environmental regulations while carrying out this work. Before attempting to work on any equipment, the individual should be thoroughly familiar with the equipment by reading and understanding the associated service literature applicable to the equipment. If you do not have this literature, you may obtain it by contacting a Johnson Controls Service Office.**

**Should there be any question concerning any aspect of the tasks outlined in this bulletin, please consult a Johnson Controls Service Office prior to attempting the work. Please be aware that this information may be time sensitive and that Johnson Controls reserves the right to revise this information at any time. Be certain you are working with the latest information.**

4. Turn off the affected system(s). Make sure each system goes through a proper pump down.
5. Verify the crankcase heaters are turned on and keep it on for 1 hr.
6. Observe and record the oil level in all affected compressors.
7. Using a hand pump, pump additional PVE oil through Schrader valve on the end compressor. Additional oil quantity is listed below:

<b>Tandem compressors</b>	<b>1qt total</b>
<b>Trio compressors</b>	<b>1.5 qt total</b>
8. Restart the system and load up all compressors. Observe and record oil level in each compressor.
9. For trio compressors, if after 15 minutes the oil level in the middle compressor is below 1/3 sight glass, or the oil level is not visible in any one of the compressors, add an additional qt. of oil and repeat step 8. Do not add more than 3 qts. of oil to the system.
10. Check the suction and discharge superheat with all compressors running. Suction super heat should be >12F, discharge super heat should be >50F. If super heat is too low, adjust (close) the thermal expansion valve (TXV).
11. Keep the unit running for 1 hr, check and record the oil level on all compressors.

CONTRACT NUMBER	DEPARTMENT NAME	REGION	PRODUCT CODE NAME	CONTRACT NAME
4E310028	Broadview Heights, OH	North	YLAA0101HE	Ohio Cat
4E310028	Broadview Heights, OH	North	YLAA0101HE	Ohio Cat
4E33003201	Dearborn, MI	North	YLAA0058HE	Ford R & E
4ED5002002	Vinton, IA	North	YLAA0089SE	Iowa Braille & Sight
4E55001701	Castroville, TX	South	YLAA0100SE	Medina Valley ISD
4EG90001	Elon College, NC	South	YLAA0080SE	Elon - Admissions Building
4EH50005	Fort Stewart, GA	South	YLAA0100SE	Ft. Stewart Winn Army
4EH50005	Fort Stewart, GA	South	YLAA0100SE	Ft. Stewart Winn Army
4EH00012	Ft. Bragg, NC	South	YLAA0070SE	FB Conference Catering
4EH00012	Ft. Bragg, NC	South	YLAA0070SE	FB Conference Catering
4E130081	Hyattsville, MD	East	YLAA0070SE	Thomas Development
4EF80023	Lake Success, NY	East	YLAA0100SE	90 ton YLAA (Were Associates)
3EG70018	O-0EG7 Roanoke,-VA-ESG	East	YLAA0142HE	Longwood University - Stubbs Hall
4EF00002	Providence, RI	East	YLAA0170SE	VA Providence Bldg 35
4E650041	Fresno, CA	West	YLAA0080SE	TKI Chiller
3E620100	O-0E62 Denver - ESG	West	YLAA0136SE	Emch Patient Wing & OB Expansion EQ
3E620100	O-0E62 Denver - ESG	West	YLAA0136SE	Emch Patient Wing & OB Expansion EQ
3E650092	O-0E65 Sacramento - ESG	West	YLAA0136SE	YCCD-MJC High Tech Center
3E680018	O-0E68 San Diego - ESG	West	YLAA0142HE	Mcas Miramar Bldg 8402
4E610029	Ridgecrest, CA	West	YLAA0101HE	Cerro Coso Pe Facility
4J0601010101SAT	Middle East	Middle East	YLAA0070SE	King Abdul Aziz Airport
4J060077	Riyadh, SA	Middle East	YLAA0070SE	P410004130/PO# 44630192
4J060077	Riyadh, SA	Middle East	YLAA0070SE	P410004130/PO# 44630192
4J060008	Saudi Arabia	Middle East	YLAA0136SE	P410000200/PO# 4463018146/ KFMC
4J060008	Saudi Arabia	Middle East	YLAA0136SE	P410000200/PO# 4463018146/ KFMC
4J060008	Saudi Arabia	Middle East	YLAA0136SE	P410000200/PO# 4463018146/ KFMC
4J080192	Celaya, GT	South America	YLAA0080SE	MX DF Eolis Senosiain
4J080223	Cusco, PE	South America	YLAA0100SE	Peru CN1414 Hospital DE
4J080223	Cusco, PE	South America	YLAA0100SE	Peru CN1414 Hospital DE
3J080569	O-0J08 Latin America Regional Branch	South America	YLAA0136SE	MX MT Barraza PGR Villahermosa
3J080569	O-0J08 Latin America Regional Branch	South America	YLAA0136SE	MX MT Barraza PGR Villahermosa
4J080063	O-0J08 Latin America Regional Branch	South America	YLAA0136SE	Peru CN1402 Clinica San Pablo
4J080072	O-0J08 Latin America Regional Branch	South America	YLAA0142HE	MX DF Temperatura Ideal Aeropuerto
4J080129	O-0J08 Latin America Regional Branch	South America	YLAA0136SE	Peru CN1407 AMOF
4J080129	Latin America Regional Branch	South America	YLAA0136SE	Peru CN1407 AMOF
4J080186	O-0J08 Latin America Regional Branch	South America	YLAA0136SE	Peru Cn1412 Edif. Juan De Aliaga
4J080186	O-0J08 Latin America Regional Branch	South America	YLAA0136SE	Peru Cn1412 Edif. Juan De Aliaga
O-4J050047	Hong Kong, Hk	Asia	YLAA0261HE	Hk - Austin Road 29

THIS PAGE INTENTIONALLY LEFT BLANK.