

**Denton, TX, 76201
(940) 210-8302
TACLA49031E
September 16, 2014**



*** TECHNICAL REPORT ***

1) INSPECTION DETAILS:

- a.) Visual inspection indicated the system was not cooling. After further investigation it was determined the system has leaks and these leaks are further deteriorating the equipment.
- b.) As requested by the homeowner Shackelford Heating & Air LLC added a synthetic R-22 environmentally friendly (R422-D) drop in replacement to restore system performance to an acceptable operational level.
- c.) As seen in Figure a, and b the unit has additional piece that can get clogged due to the refrigerant getting contaminated by moisture caused by having a leak in the system.
- d.) Informed customer of the operational risks of running equipment in these conditions.

Mechanical System:

MODEL MANUFACTURER: AMERICAN STANDARD

EQUIPMENT AGE: 13 YEARS



Figure a



Figure b

TECHNICAL COMMENTS:

- **Shackelford Heating & Air LLC charged the system with 1.5lbs and left the system with a 15-degree temperature difference between supply and return.**
- **Shackelford Heating & Air LLC discussed that higher than normal operating pressures can be expected with operating systems with known restrictions.**
- **Shackelford Heating & Air LLC recommends replacing the entire system as both indoor and outdoor heat exchangers are leaking refrigerant and this will cause further deterioration.**

We thank you for the opportunity to prepare this technical evaluation for you and look forward to being of service. Should you have any questions, please give us a call.

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