Home / Hotel Work: Day 3, Week 1, Wed Night **Preview Binder Sections: 5-6**
References: Binder, Green Book, Section 8 **Review Binder Section: 4**
EPA: Read Type II Section of 608 Book, Watch Video

Refrigeration Diagnostics:

1. Typical operation for frozen range is **Continuous Run/ Cycle Sentry** (circle one). Why is this true?
    a. A. So the unit does not run out of fuel
    b. Because cycle sentry offers freeze protection so the load will not get damaged
    c. Because cycle sentry can handle a greater range of temperatures
    d. D. All of the above

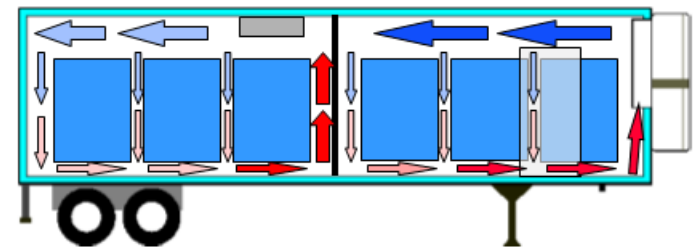
2. What is the first step in the diagnostic process for repairing TK units?
    a. Eliminate
    b. Repair
    c. Verify
    d. Gather Information

3. Missing kazoos on a trailer unit can lead to which of the following:
    a. Increased pulldown time
    b. Increased fuel consumption
    c. Longer time to reach setpoint
    d. All of the above

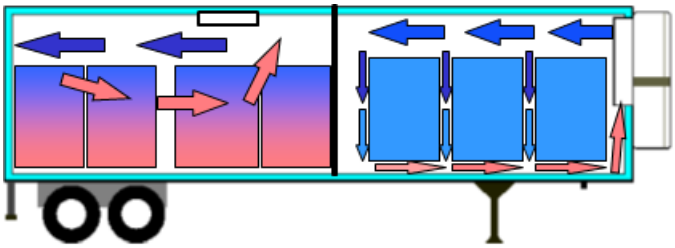
(continued)

4. Identify the problem areas for the following three trailers:

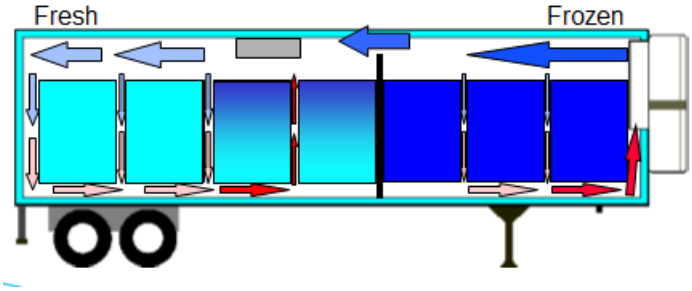
a. Tight to bulkhead
b. Tall load
c. Short bulkhead
d. Normal



a. Tight to bulkhead
b. Tight to rear
c. Short bulkhead
d. Both (a) & (b)



a. Tight to rear
b. Tall load
c. Short bulkhead
d. Normal



5. Place the proper repair procedure from the box into the spaces provided:
   a. Hot Gas Solenoid leaking
      _____
   b. Condenser Inlet Check Valve stuck shut
      _____
   c. Leaking Compressor Reed Valves
      _____
   d. Purge Check Valve stuck open
      _____
   e. Liquid Line Solenoid is faulty
      _____

R02A
R03A
R04A
R06A
R08A

Pressure Control Valves:

TXV Thermal Expansion Valve

1. During normal operation, the opening force that allows more refrigerant to flow out of the TXV is provided by the _____ and the closing forces, that restrict refrigerant flow, are the _____ and _____.
2. The expansion valve drops refrigerant pressure as well as reducing refrigerant _____ and _____.
3. If the feeler/sense bulb loses its charge, the position of TXV will be _____ and cooling capacity will _____.

Mechanical Throttle Valve

4. A Mechanical Throttle Valve needs a 3 pound adjustment. According to the Red Book Service Procedures, what must you do?

   _____

5. During the Throttle Valve Pressure Setting Check, why is the unit put into heat or defrost?

   _____

6. How much does each shim change the pressure setting of the mechanical throttle valve?

   _____