|  |
| --- |
| *Indicate the answer choice that best completes the statement or answers the question.* |

|  |
| --- |
| **Pressure Diagnosis 01**Viewing the animation will be required to answer the following question(s) correctly. Read the question and use the link provided to open the animation. Follow the directions in the questions and select the correct answer. Close the animation window and move on to the next question(s), when complete.[Click for Animation](http://www.jblearning.com/navigate/filelookup.ashx?fileid=76d8a1ed-80d8-45b8-bd45-d6cb9db6c11f) |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. What is the low side pressure with the compressor engaged?

|  |  |  |
| --- | --- | --- |
|   | a.  | 12 psi |
|   | b.  | 24 psi |
|   | c.  | 300 KPa |
|   | d.  | 60 psiAnswer:       |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2. What is the low side pressure with the compressor disengaged?

|  |  |  |
| --- | --- | --- |
|   | a.  | 74 psi |
|   | b.  | 400 KPa |
|   | c.  | 500 KPa |
|   | d.  | 55 psiAnswer:       |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 3. What is the high side pressure with the compressor engaged?

|  |  |  |
| --- | --- | --- |
|   | a.  | 15 KPa |
|   | b.  | 125 psi |
|   | c.  | 224 psi |
|   | d.  | 300 psiAnswer:       |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4. What is the high side pressure with the compressor disengaged?

|  |  |  |
| --- | --- | --- |
|   | a.  | 74 psi |
|   | b.  | 8 KPa |
|   | c.  | 1000 KPa |
|   | d.  | 150 psiAnswer:       |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5. Based on the pressure readings what is your diagnosis of this system?

|  |  |  |
| --- | --- | --- |
|   | a.  | Normal operation |
|   | b.  | System is undercharged  |
|   | c.  | System is overcharged |
|   | d.  | Compressor is faultyAnswer:       |

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| --- |
| **Pressure Diagnosis 02**Viewing the animation will be required to answer the following question(s) correctly. Read the question and use the link provided to open the animation. Follow the directions in the questions and select the correct answer. Close the animation window and move on to the next question(s), when complete.[Click for Animation](http://www.jblearning.com/navigate/filelookup.ashx?fileid=7d42bf98-4f3c-42df-aa0c-b2aeb1f852f4) |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 6. What is the low side pressure with compressor clutch engaged?

|  |  |  |
| --- | --- | --- |
|   | a.  | 5 psi |
|   | b.  | 11 psi |
|   | c.  | 1 KPa |
|   | d.  | 250 KPaAnswer:       |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 7. What is the low side pressure with compressor clutch disengaged?

|  |  |  |
| --- | --- | --- |
|   | a.  | 45 psi |
|   | b.  | 325 KPa |
|   | c.  | 65 psi |
|   | d.  | 4 KPaAnswer:       |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 8. What is the high side pressure with compressor clutch engaged?

|  |  |  |
| --- | --- | --- |
|   | a.  | 125 psi |
|   | b.  | 149 psi |
|   | c.  | 175 psi |
|   | d.  | 200 psiAnswer:       |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 9. What is the high side pressure with compressor clutch disengaged?

|  |  |  |
| --- | --- | --- |
|   | a.  | 5 KPa |
|   | b.  | 90 psi |
|   | c.  | 650 KPa |
|   | d.  | 430 KPaAnswer:       |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10. The customer complains of high interior temperature.  Based on the pressure readings, what is the most likely cause?

|  |  |  |
| --- | --- | --- |
|   | a.  | System is undercharged |
|   | b.  | System is overcharged |
|   | c.  | Faulty TX valve |
|   | d.  | Plugged condenser unitAnswer:       |

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| **Pressure Diagnosis 03**Viewing the animation will be required to answer the following question(s) correctly. Read the question and use the link provided to open the animation. Follow the directions in the questions and select the correct answer. Close the animation window and move on to the next question(s), when complete.[Click for Animation](http://www.jblearning.com/navigate/filelookup.ashx?fileid=d2f273fe-5518-42b6-8e33-3ebbf22d3b2a) |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 11. With the compressor engaged how would you describe the low side pressure?

|  |  |  |
| --- | --- | --- |
|   | a.  | Normal |
|   | b.  | Slightly lower than normal |
|   | c.  | Significantly lower than normal |
|   | d.  | Higher than normalAnswer:       |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 12. With the compressor engaged how would you describe the high side pressure?

|  |  |  |
| --- | --- | --- |
|   | a.  | Normal |
|   | b.  | Slightly higher than normal |
|   | c.  | Significantly higher than normal |
|   | d.  | Significantly lower than normalAnswer:       |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 13. Based on the pressure readings what is wrong with this system?

|  |  |  |
| --- | --- | --- |
|   | a.  | Freon is low |
|   | b.  | Freon is high |
|   | c.  | There is too much oil in the system |
|   | d.  | Nothing, the pressures are normal.Answer:       |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 14. If the system fill on this vehicle is 1.2 lbs (approx. 19 oz.) how much freon is in the system, based on the low and high side pressure?

|  |  |  |
| --- | --- | --- |
|   | a.  | Less than 16 ounces |
|   | b.  | 17 ounces |
|   | c.  | 19 ounces |
|   | d.  | 25 ouncesAnswer:       |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 15. Based on the pressure readings what is the technician's next step?

|  |  |  |
| --- | --- | --- |
|   | a.  | Charge the system and return the car to the customer |
|   | b.  | Recover enough freon to correct the overcharged condition |
|   | c.  | Charge the system and check for leaks |
|   | d.  | Clean the condenserAnswer:       |

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| **Pressure Diagnosis 04**Viewing the animation will be required to answer the following question(s) correctly. Read the question and use the link provided to open the animation. Follow the directions in the questions and select the correct answer. Close the animation window and move on to the next question(s), when complete.[Click for Animation](http://www.jblearning.com/navigate/filelookup.ashx?fileid=4f658e68-c74b-4d93-aa9a-13e14214e808) |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 16. With the compressor on what is the low side pressure?

|  |  |  |
| --- | --- | --- |
|   | a.  | 28 psi |
|   | b.  | 38 psi |
|   | c.  | 48 psi |
|   | d.  | 38 KPaAnswer:       |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 17. With the compressor on what is the high side pressure?

|  |  |  |
| --- | --- | --- |
|   | a.  | 275 psi |
|   | b.  | 300 psi |
|   | c.  | 324 psi |
|   | d.  | 2000 KPaAnswer:       |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 18. With the compressor engaged how would you describe the low side pressure?

|  |  |  |
| --- | --- | --- |
|   | a.  | Normal |
|   | b.  | Higher than normal |
|   | c.  | Lower than normal |
|   | d.  | The same as the low side pressure with the compressor disengagedAnswer:       |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 19. With the compressor engaged how would you describe the high side pressure?

|  |  |  |
| --- | --- | --- |
|   | a.  | Too high  |
|   | b.  | Too low |
|   | c.  | Normal |
|   | d.  | The same as the low side pressure with the compressor engagedAnswer:       |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 20. What is the most likely reason for the gauge readings on this system?

|  |  |  |
| --- | --- | --- |
|   | a.  | System has an external leak |
|   | b.  | During a previous repair the system was undercharged |
|   | c.  | During a previous repair the system was overcharged |
|   | d.  | The evaporator core is leakingAnswer:       |

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| **Pressure Diagnosis 05**Viewing the animation will be required to answer the following question(s) correctly. Read the question and use the link provided to open the animation. Follow the directions in the questions and select the correct answer. Close the animation window and move on to the next question(s), when complete.[Click for Animation](http://www.jblearning.com/navigate/filelookup.ashx?fileid=4b173787-d6f1-4e73-a3da-52aff48f32af) |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 21. What is the low side pressure with the compressor off?

|  |  |  |
| --- | --- | --- |
|   | a.  | 1.5 KPa |
|   | b.  | 50 psi |
|   | c.  | 70 psi |
|   | d.  | 150 KPaAnswer:       |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 22. What is the high side pressure with the compressor off?

|  |  |  |
| --- | --- | --- |
|   | a.  | 75 KPa |
|   | b.  | 5 KPa |
|   | c.  | 800 KPa |
|   | d.  | 500 KPaAnswer:        |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 23. What is the high side pressure with the compressor on?

|  |  |  |
| --- | --- | --- |
|   | a.  | 200 psi |
|   | b.  | 250 psi |
|   | c.  | 150 KPa |
|   | d.  | 1500 KPaAnswer:       |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 24. How would you describe the low side pressure with the compressor on and off

|  |  |  |
| --- | --- | --- |
|   | a.  | The pressure drops when the compressor engages. |
|   | b.  | The pressure increases when the compressor engages. |
|   | c.  | The pressure fluctuates when the compressor engages. |
|   | d.  | The pressure remains the same when the compressor engages.Answer:       |

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|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 25. What is your diagnosis of this system?

|  |  |  |
| --- | --- | --- |
|   | a.  | Air in the system |
|   | b.  | System is overcharged |
|   | c.  | System is undercharged |
|   | d.  | Compressor clutch is faultyAnswer:       |

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**Answer Key**

|  |
| --- |
| 1. b |

|  |
| --- |
| 2. a |

|  |
| --- |
| 3. c |

|  |
| --- |
| 4. a |

|  |
| --- |
| 5. a |

|  |
| --- |
| 6. b |

|  |
| --- |
| 7. c |

|  |
| --- |
| 8. b |

|  |
| --- |
| 9. d |

|  |
| --- |
| 10. a |

|  |
| --- |
| 11. c |

|  |
| --- |
| 12. d |

|  |
| --- |
| 13. a |

|  |
| --- |
| 14. a |

|  |
| --- |
| 15. c |

|  |
| --- |
| 16. b |

|  |
| --- |
| 17. c |

|  |
| --- |
| 18. b |

|  |
| --- |
| 19. a |

|  |
| --- |
| 20. c |

|  |
| --- |
| 21. c |

|  |
| --- |
| 22. d |

|  |
| --- |
| 23. d |

|  |
| --- |
| 24. d |

|  |
| --- |
| 25. a |