LUBRICATION TEST

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Lubrication Test

- 1. A lubricant's viscosity is rated by what type of unit?
- A. SSU
- **B. SAE**
- C. ISA
- D. LVU
- 2. A lubricant with high viscosity has a:
- A. High speed.
- B. High temperature.
- C. High resistance to flow.
- D. High resistance to breakdown.
- 3. A low-viscosity lubricant:
- A. Provides good cushioning for machine shock loads.
- B. Can flow into tight spaces for better lubrication.
- C. Does not carry heat away as well as a high-viscosity lubricant.
- D. Costs less than a high-viscosity lubricant.
- 4. What are two disadvantages of high-viscosity lubricants?
- A. They are expensive and cannot be used on high-speed motors.
- B. They break down quickly and are difficult to apply.
- C. They do not flow well and do not carry heat away well.
 - D. They do not protect against abrasive action of dirt, and they breakdown quickly.
- 5. Multiple-viscosity lubricants differ from single-viscosity lubricants because:
- A. They have special additives that extend their effective temperature range.
- B. They are best within a very narrow temperature range.
- C. They will never degrade under high temperatures.
- D. They last longer.
- 6. One advantage of multiple-viscosity lubricants is that:
 - A. They flow better at medium range temperatures than at either extreme.
- B. They have a high bearing capacity.
- C. They have a broad working temperature range.
- D. They do not break down in the presence of water.
- 7. Which of the following is NOT a factor affecting the selection of a lubricant?
- A. Machine speed
- **B.** Environmental humidity
- C. Operating temperature
- D. Environmental temperatures
- 8. When choosing a lubricant, you want:
- A. The lubricant to stay thin at high temperatures.
- B. The lubricant to thicken at low temperatures.
- C. The lubricant to thin at low temperatures.
- D. The lubricant to maintain effective viscosity at its highest rated temperatures.







- 9. An oil cooler is used to:
- A. Add heat to the oil to enable it to flow better at low temperatures.
- B. Add heat to the oil to keep it from thinning at high temperatures.
- C. Remove heat from the oil to prevent it from thinning at high temperatures.
- D. Remove heat from the oil to prevent it from thickening at low temperatures.
- 10. What function do detergent additives in lubricants perform?
- A. Keep metal surfaces clean
- B. Keep the lubricant clean
- C. Minimize the amount of foaming
- D. All of the above
- 11. An anti-oxidation additive in a lubricant:
- A. Controls the level of dirt.
- B. Controls the amount of mixing with air.
- C. Controls the level of foaming.
- D. Prevents the lubricant from mixing with metal particles.
- 12. As a mechanic, you observe that a machine bearing is extremely hot and becoming discolored as it operates. Your conclusion is that the:
- A. Lubricant is contaminated by water.
- B. Bearing is about to seize.
- C. Lubricant is causing acid corrosion on the bearing.
- D. Bearing is not compatible with the lubricant.
- 13. When cooling an overheated bearing, what should you do first?
- A. Wrap the bearing housing in hot, wet rags.
- B. Spray cool water on the bearing.
- C. Inject cool oil in the bearing.
- D. Wrap the bearing housing in cool, wet rags.
- 14. Oil returning to the sump is visually cloudy and foaming. You conclude that the oil is:
- A. Contaminated with soot.
- B. Contaminated with water.
- C. Contaminated with metal particles.
- D. In need of detergent additives.
- 15. Undesired oil misting can be reduced by:
- A. Increasing the temperature of the oil.
- B. Increasing the speed of the machine.
- C. Increasing the viscosity of the oil.
- D. Reducing the viscosity of the oil.
- 16. A grease cup is defined as a:
- A. Cup filled with grease that screws onto a fitting.
- B. Timed lubrication system controlled by a rotating cam.
- C. Gravity system that forces lubricant onto or into the area needinglubrication.
- D. Fitting that applies oil in droplet form.







- 17. A lubricating system used in low-speed applications in which a needle valve meters a steady rate of lubricant to a machine without recycling the lubricant is a:
- A. Dip lubricator.
- B. Shot lubricator.
- C. Drip lubricator.
- D. Oil sump.
- 18. A lubrication system in which the component needing lubrication rotates through an enclosed housing containing oil and carries the oil to other components is called a:
- A. Dip lubricator.
- B. Shot lubricator.
- C. Drip lubricator.
- D. Oil sump.
- 19. In a force-feed lubrication system, lubricant is moved to the component needing lubrication by a:
- A. Cooler.
- B. Pump.
- C. Filter.
- D. Bearing.
- 20 What is the most undesirable by-product of oil misting?
- A. Bearing failure
- B. Shaft damage
- C. Explosion potential
- D. Oil breakdown

Lubrication
A
C
В
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A
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В
D
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Total Correct / 20 = ____(your score)









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