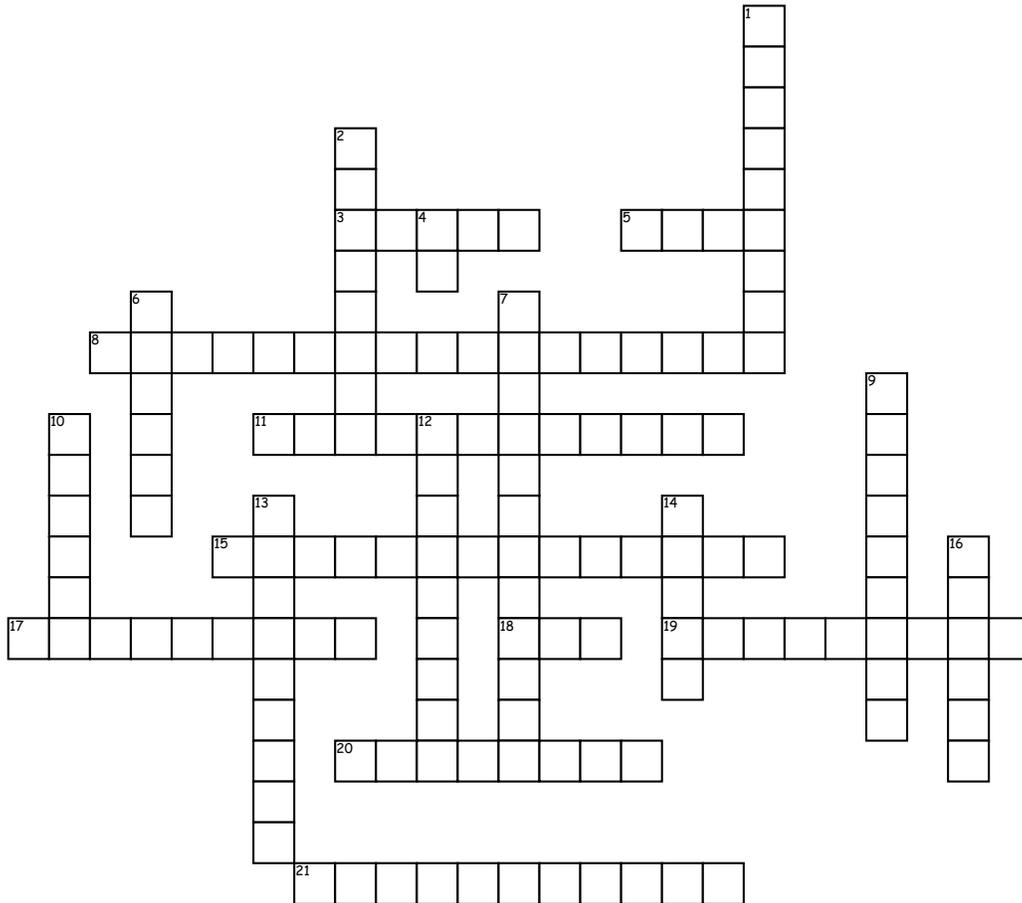


Ch 10 Lubrication System



Across

- 3. _____ develops standards for gasoline fueled engine oils.
- 5. The purpose of engine oil is to cool, clean and _____.
- 8. This oil additive prevents oil from getting too thin.
- 11. Oil with varied molecular structure.
- 15. This type of oil is a combination of synthetic and conventional oil.
- 17. Oil with consistent (same) molecular structure.
- 18. _____ rates the engine oil.
- 19. By lowering the friction, the engine becomes more _____.

20. If the oil warning light comes on it means the engine has low or no oil _____ and shut the car off.

21. This type of engine oil additive keeps contaminants suspended and helps prevent sludge from forming.

Down

- 1. When installing an _____ tighten it 1/2 to 1 full turn.
- 2. What is the force that resists motion between two objects?
- 4. What is the current API rating?
- 6. What type of weather temp does the W stand for in 5W-20?
- 7. Oil filters remove _____ from the oil.
- 9. What is the resistance to flow?

10. What is it called when gas escapes past the piston rings and into the crank case?

12. Is synthetic oil cheaper or more expensive than conventional oil?

13. The type of oil has fewer impurities, better lubrication, reduces sludge and protects at high temps.

14. Most _____ vehicles have an oil monitoring system.

16. Refer to the owner's _____ for oil recommendations.

Word Bank

- | | | | | |
|--------------------|-----------|--------------|-------------|-----------------|
| API | newer | efficient | manual | synthetic blend |
| synthetic | blow by | contaminants | dispersants | friction |
| winter | pressure | synthetic | seal | ILSAC |
| viscosity modifier | expensive | SN | viscosity | oil filter |
| conventional | | | | |