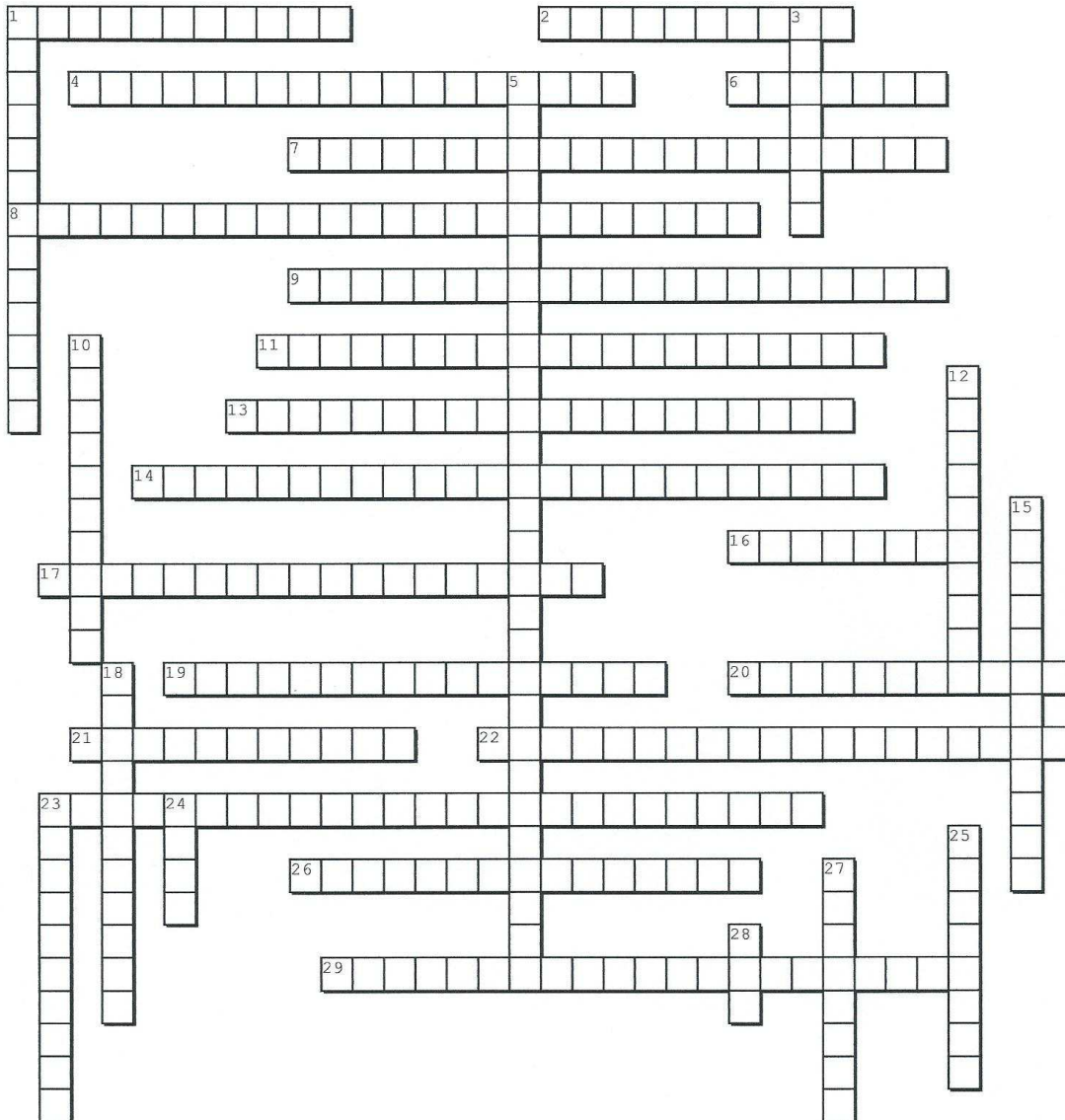


Lesson4_Crossword Puzzle

Name _____

Complete the crossword below



Across

1. EXCESSIVE FUEL BEING BURNED IN COMBUSTION CHAMBER
2. RECOMMENDED INTERVALS ALMOST ALWAYS EXPRESSED IN TERMS OF MILEAGE OR ELAPSED TIME OF OPERATION (2 WORDS)
4. COMMON CAUSES ARE CLOGGED CATALYTIC CONVERTER, CLOGGED MUFFLER, DAMAGED OR DEFECTIVE PIPING (2 WORDS)
6. WHERE ENGINE OIL IS USED FOR LUBRICATING THE ENGINE (2 WORDS)
7. ALL OIL PUMPS ARE CALLED _____ PUMPS (2 WORDS)
8. ALSO CALLED A DYNAMIC COMPRESSION TEST (3 WORDS)
9. SAE 5W-30 AND SAE 10W-30 ARE TWO EXAMPLES (2 WORDS)
11. DETERMINE IF THE PISTON RINGS AND VALVES ARE PROPERLY SEALING (3 WORDS)
13. USING OIL ON CYLINDERS, FOLLOWING A LOW COMPRESSION READING (3 WORDS)
14. ANOTHER NAME FOR RUNNING COMPRESSION TEST (3 WORDS)
16. PROVIDES OIL TO ENGINE; MAINTAINS PRESSURE BY FORCING OIL INTO THE SYSTEM UNDER PRESSURE (2 WORDS)
17. DETERMINES IF ALL CYLINDERS ARE CONTRIBUTING EQUALLY
19. FUNDAMENTAL DIAGNOSTIC FOR SMOOTH ENGINE OPERATION (2 WORDS)
20. PRESSURE BELOW ATMOSPHERIC PRESSURE, MEASURED IN INCHES (OR MILLIMETERS) OF MERCURY (2 WORDS)
21. MADE OF CLOSELY PACKED CLOTH FIBERS OR POROUS PAPER THAT TRAPS PARTICLES (2 WORDS)
22. PREVENTS OIL FROM DRAINING OUT OF FILTER WHEN ENGINE IS SHUT OFF
23. RELIEF VALVE
26. INDICATES THE CHANGE IN OILS BETWEEN THE COLD AND HOT EXTREMES (2 WORDS)
29. ONE OF THE BEST TESTS THAT CAN BE USED TO DETERMINE ENGINE CONDITION (3 WORDS)

Down

1. WHEN EXHAUST SYSTEM IS RESTRICTED, PRESSURE INCREASES (2 WORDS)
3. OIL DELIVER PASSAGE
5. WORKING WITH ENGINE MANUFACTURERS AND OIL COMPANIES, HAS ESTABLISHED ENGINE OIL PERFORMANCE CLASSIFICATION (3 WORDS)
10. A SIGN THAT ENGINE IS BURNING OIL (2 WORDS)
12. LOWEST TEMPERATURE AT WHICH OIL WILL POUR (2 WORDS)
15. ALLOWS OIL TO GO AROUND THE FILTER ELEMENT (2 WORDS)
18. STEAM; NORMAL EXHAUST DURING COLD WEATHER
23. USE THIS TO CHECK FOR EVEN AND STEADY EXHAUST AT THE TAILPIPE (2 WORDS)
24. ANOTHER NAME FOR OIL PAN
25. PUMP TRIES TO PULL OIL FASTER THAN IT CAN FLOW FROM THE PAN TO THE PICKUP
27. OIL PUMP IS SHALLOW, AND OIL IS PUMPED INTO A REMOTE RESERVOIR (2 WORDS)
28. A GRADE NUMBER, WHICH INDICATES THE VISCOSITY RANGE INTO WHICH THE OIL FITS (ABBREV)