

# Automotive Technology 7<sup>th</sup> Edition

## Chapter 19 – Engine Oil and Filters

### Lesson Plan



#### **CHAPTER SUMMARY:**

1. Purpose and Function of Engine Oil, Engine Oil Additives, Properties of Engine Oil, and SAE Rating
2. API Rating, ILSAC Oil Rating, European Oil Rating System, Synthetic Oil, and High Mileage Oils
3. Vehicle-Specific Specifications, Oil Brand Compatibility, Oil Filters, and Oil Change



#### **OBJECTIVES:**

1. Explain the purpose and function of engine oil.
2. Explain the purpose of engine oil additives.
3. Discuss the properties of engine oil.
4. Discuss SAE rating.
5. Discuss API rating.
6. Discuss ILSAC oil rating.
7. Discuss the European oil rating system.
8. Discuss synthetic oil.
9. Discuss high mileage oils.
10. Discuss vehicle-specific specifications.
11. Discuss brand compatibility of oil.
12. Discuss the purpose and function of oil filters.
13. Describe the oil change procedure.



#### **RESOURCES:** (All resources may be found at jameshalderman.com)

1. Task Sheet: Engine Oil and Filter Information
2. Task Sheet: Engine Oil Change II
3. Chapter PowerPoint
4. Crossword Puzzle and Word Search
5. Videos: [\(A1\) Engine Repair Videos](#)
6. Animations: [\(A1\) Engine Repair Animations](#)



#### **ACTIVITIES:**

1. Task Sheet: Engine Oil and Filter Information
2. Task Sheet: Engine Oil Change II
3. Crossword Puzzle and Word Search



#### **ASSIGNMENTS:**

1. Chapter crossword and word search puzzles from the website.
2. Complete end of chapter quiz from the textbook.
3. Complete multiple choice and short answer quizzes downloaded from the website.



#### **CLASS DISCUSSION:**

1. Review and group discussion chapter [Frequently Asked Questions](#) and [Tech Tips](#) sections.
2. Review and group discussion of the five (5) chapter [Review Questions](#).

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**NOTES AND EVALUATION:**



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