

Automotive Engines Theory and Servicing 10th Edition

Chapter 14 – Engine Oil and Filters

Lesson Plan

CHAPTER SUMMARY:



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



1. Explain the purpose of engine oil and engine oil additives.
 2. Discuss the properties of engine oil.
 3. Discuss SAE rating, API rating, ILSAC oil rating, and European oil rating system.
 4. Discuss synthetic oil and high mileage oils.
 5. Discuss vehicle-specific specifications and brand compatibility of oil.
 6. Discuss the purpose and function of oil filters.
 7. Describe the oil change procedure.
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RESOURCES: ([All resources may be found at jameshalderman.com](http://www.jameshalderman.com))



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



1. Task Sheet: Engine Oil and Filter Information
 2. Task Sheet: Engine Oil Change
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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.
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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:

