

Automotive Technology 6th Edition

Chapter 22 – Engine Oil

Lesson Plan



CHAPTER SUMMARY:

1. Engine oil purpose, function, additives, and properties
 2. SAE rating, API rating, ILSAC oil rating, and the European oil rating system
 3. Synthetic oil, high mileage oil, vehicle specific oil, and oil brand compatibility
 4. Oil filters and oil changes
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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 <http://www.jameshalderman.com>)

1. **Task Sheet ASE (A1-D-10):** Engine Oil Change
 2. Chapter PowerPoint
 3. Chapter Crossword Puzzle and Word Search
 4. Animations: Engine Oil Level Quality Sensor and Oil Flow-World Engine
 5. Videos: How Engine Lubrication System Works (time 3:26)
 6. Videos: What Is an Indication of Bad Engine Oil? (time 2:14)
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ACTIVITIES:

1. **Task Sheet ASE (A1-D-10):** Have students complete Engine Oil Change Task Sheet.
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ASSIGNMENTS:

1. Chapter crossword and word search puzzles.
 2. Complete end of chapter 10 question quiz.
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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:
