**Automotive Engines Theory and Servicing 10th Edition**

**Chapter 15 – Lubrication System Operation and Diagnosis**

**Lesson Plan**

**CHAPTER SUMMARY:**

1. Lubrication Principles, Engine Lubrication Systems, Oil Pumps, Oil Passages, and Oil Pans

2. Dry Sump System and Oil Coolers

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**OBJECTIVES:**

1. Explain the purpose of the lubrication system, and state the lubrication principles.

2. Discuss engine lubrication systems.

3. Describe the purpose and function of oil pumps.

4. Discuss the purpose and function of oil passages.

5. Discuss oil pans, oil coolers, and the dry sump system.

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**RESOURCES:** [(All resources may be found at jameshalderman.com)](https://jameshalderman.com/)

1. Task Sheet: Auxiliary Oil Coolers

2. Task Sheet: Oil Temperature and Pressure Switches

3. Task Sheet: Oil Pump Inspection

4. Chapter PowerPoint

5. [Crossword Puzzle and Word Search (A1)](https://jameshalderman.com/a1_puzzles_lib_page/)

6. [Videos: (A1) Engine Repair](https://jameshalderman.com/a1_vid_lib_page/)

7. [Animations: (A1) Engine Repair](https://jameshalderman.com/a1_anim_lib_page/)

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**ACTIVITIES:**

1. Task Sheet: Auxiliary Oil Coolers

2. Task Sheet: Oil Temperature and Pressure Switches

3. Task Sheet: Oil Pump Inspection

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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:**

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