**Automotive Technology 7th Edition**

**Chapter 20 – 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.

2. State the lubrication principles.

3. Discuss engine lubrication systems.

4. Describe the purpose and function of oil pumps.

5. Discuss the purpose and function of oil passages.

6. Discuss oil pans.

7. Discuss the dry sump system.

8. Discuss oil coolers. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

1. Task Sheet: Lubrication & Cooling System Components

2. Task Sheet: Auxiliary Oil Coolers

3. Task Sheet: Oil Temperature and Pressure Switches

4. Task Sheet: Oil Pump Inspection

5. Chapter PowerPoint

6. Crossword Puzzle and Word Search

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

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

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**ACTIVITIES:**

1. Task Sheet: Lubrication & Cooling System Components

2. Task Sheet: Auxiliary Oil Coolers

3. Task Sheet: Oil Temperature and Pressure Switches

4. Task Sheet: Oil Pump Inspection

5. Crossword Puzzle and Word Search

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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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