

**FIGURE 7-1** (a) Regular diesel fuel on the left has a clear or greenish tint, whereas fuel for off-road use is tinted red for identification. (b) A fuel pump in a farming area that clearly states the red diesel fuel is for off-road use only.



PEARSON Automotive Engine Performance, 3/e By James D. Halderman Copyright © 2010, 2007, 2003 Pearson Education, Inc. Upper Saddle River, NJ 07458 • All rights reserved. 1

---

---

---

---

---

---

---

---

**FIGURE 7-2** Testing the API viscosity of a diesel fuel sample using a hydrometer.



PEARSON Automotive Engine Performance, 3/e By James D. Halderman Copyright © 2010, 2007, 2003 Pearson Education, Inc. Upper Saddle River, NJ 07458 • All rights reserved. 2

---

---

---

---

---

---

---

---

**FIGURE 7-3** An electrical resistance heater coil in the air inlet on a General Motors 6.5-liter V-8 diesel engine used to warm the air entering the engine.



PEARSON Automotive Engine Performance, 3/e By James D. Halderman Copyright © 2010, 2007, 2003 Pearson Education, Inc. Upper Saddle River, NJ 07458 • All rights reserved. 3

---

---

---

---

---

---

---

---

**FIGURE 7-4** A pump decal indicating that the biodiesel fuel is ultra-low-sulfur diesel (ULSD) and must be used in 2007 and newer diesel vehicles.



PEARSON

Automotive Engine Performance, 3/e  
By James D. Halderman

4

Copyright © 2010, 2007, 2003 Pearson Education, Inc.  
Upper Saddle River, NJ 07458 • All rights reserved.

---

---

---

---

---

---

---

---