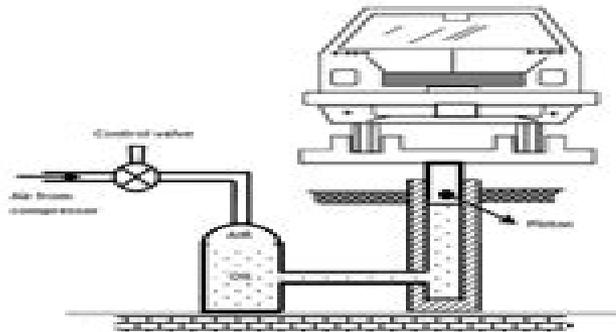


**Problem 1:**

For the fluid power automobile lift system of the below figure, the hydraulic piston has a 250-mm diameter. How much of oil pressure (kPa) is required to lift a 13300 N automobile?



Solution 1:

$$P = \frac{F}{A}$$
$$P = \frac{F}{A} = \frac{13300}{\frac{\pi}{4} 0.25^2} = 270.879 \text{ kPa}$$

**Problem 2:**

For the fluid power automobile lift system of the below figure, the air pressure equals 550 kPa gauge. If the hydraulic piston has a diameter of 250 mm, what is the maximum weight of the automobile to be lifted? The specific gravity of oil is 0.9. What percentage error in the answer to this problem occurs by ignoring the 1-m head of oil to between the air and interface surface and bottom surface of the piston? Density of oil is  $900 \frac{\text{kg}}{\text{m}^3}$ .

# Chapter 5 Solved Problems McMaster University

**Allen Horace Miller**



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