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Solution: Apply the hydrostatic formula down through the three layers of fluid: bottom air oil oil water water mercury mercury 3 or:  $60000 \text{ Pa}$  pair  $(8720 \text{ N/m}^2)(1.5 \text{ m})$   $(9790)(1.0 \text{ m})$   $(133100)(0.2 \text{ m})$  Solve for the pressure in the air space: pair  $10500 \text{ Pa}$  Ans.

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