

2. The customer expects $20 \times 7056 \text{ in}^3$ and receives $20 \times 5826 \text{ in}^3$, the difference being 24600 cubic inches, or

$$(24600 \text{ in}^3) \left(\frac{2.54 \text{ cm}}{1 \text{ inch}} \right)^3 \left(\frac{1 \text{ L}}{1000 \text{ cm}^3} \right) = 403 \text{ L}$$

where Appendix D has been used (see also Sample Problem 1-2).