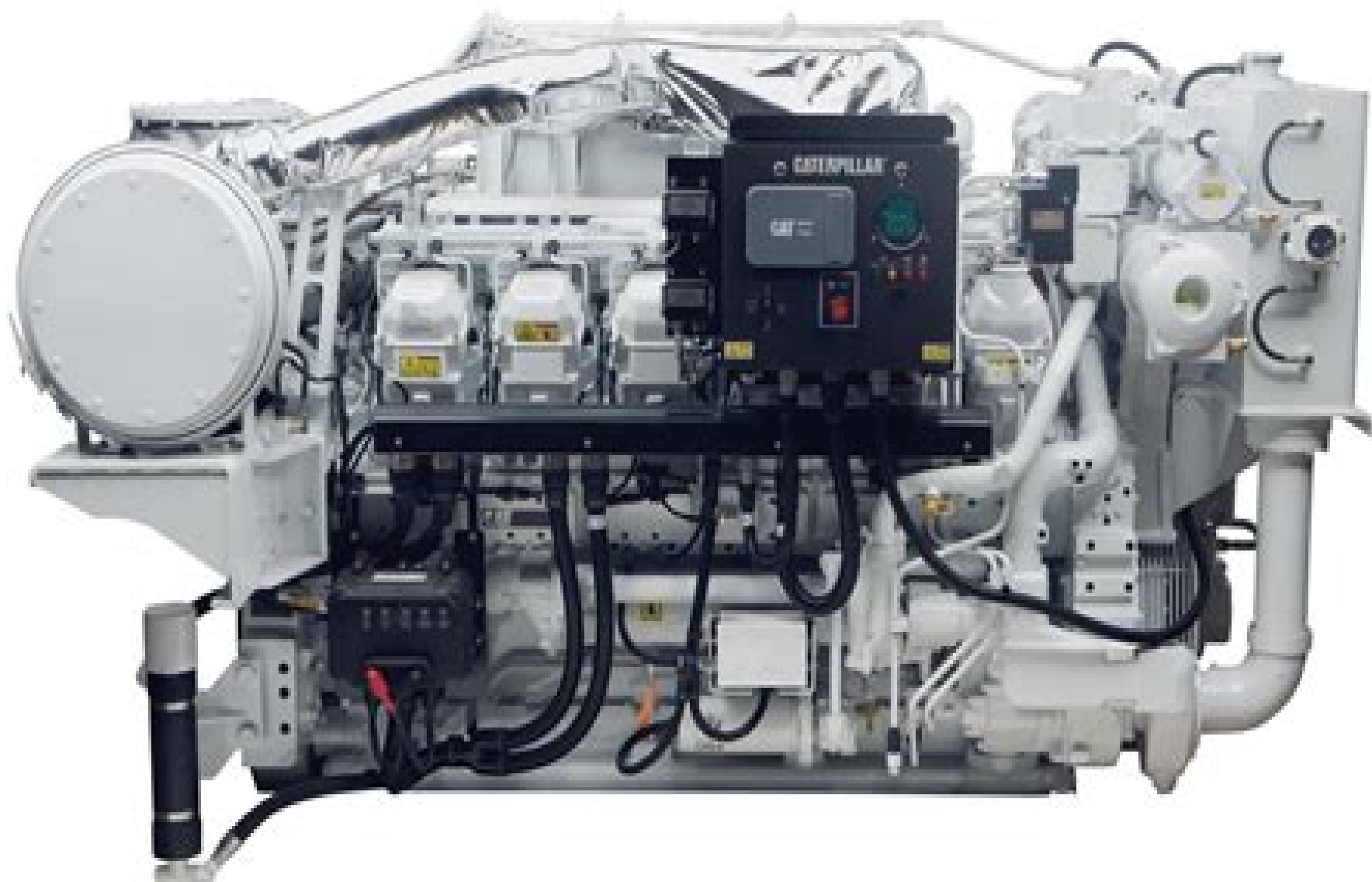




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water n_a 54 g 18 g mol 1 3 mol total number of moles $n_a + n_b$ 0 5 3 3 5 mol mole fraction of solute ethyl alcohol $x_b = \frac{n_b}{n_a + n_b}$

$\frac{0.5}{0.5 + 3.5} = 0.1429$

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40 g of H_2O molar mass of H_2O is 18 gm mole and molar mass of CH_3OH is 32 gm mole solution moles of CH_3OH $\frac{4.5}{32} = 0.14$

mole moles of H_2O $\frac{40}{18} = 2.2$ moles therefore according to the equation

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time the total pressure p_a $\times$ $\frac{p_a}{p_t}$ mole fraction $\frac{p_a}{p_t}$ $\frac{n_a}{n_t}$ all $\frac{n_a}{n_t}$ mole fraction of substance a is often denoted by x_a and

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web since the mole fraction of the O_2 is 0.050 it contributes 0.050 or if you will 5.0 of the total pressure thus total pressure is 0.2105042 atm problem 9 a sample of 1.43 g of helium and an unweighed quantity of O_2 are mixed in a flask at room temperature