

Understanding your service needs: Typical maintenance needs by mileage*

Mileage	10K	20K	30K	40K	50K	60K	70K	80K	90K	100K	110K	120K
Maintenance												
Engine synthetic oil change and oil filter change	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Vehicle check				✓				✓				✓
Air filter change (engine filter)*					✓					✓		
Diesel fuel filter change				✓				✓				✓
Service / replacement micro filter		✓		✓		✓		✓		✓		✓
Service / replacement spark plugs						✓						✓
Service / replacement brake fluid**				✓		✓		✓		✓		✓
Wear-and-tear items												
Replacement of front / rear brake pads			✓			✓			✓			✓
Replacement of clutch (if necessary)						✓					✓	
Replacement of front/rear brake discs	As required											
Replacement of wiper blades	As required (performed during engine oil service)											

✓ Covered by BMW Ultimate Care

✓ Covered by BMW Ultimate Care+

* Applies to most 2014 model year and newer vehicles.

** Based on time / age only, not mileage.

9 Bmw X3 Maintenance Schedule

Christian G. Meyer

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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 $2 \text{ CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) \rightarrow \text{C}_2\text{H}_2(\text{g}) + \frac{5}{2} \text{O}_2(\text{g}) \quad \Delta h = 94.5 \text{ kJ}$
 $\text{H}_2\text{O}(\text{g}) \rightarrow \text{H}_2(\text{g}) + \frac{1}{2} \text{O}_2(\text{g}) \quad \Delta h = 71.2 \text{ kJ}$
 $\text{C}_2\text{H}_6(\text{g}) + \frac{7}{2} \text{O}_2(\text{g}) \rightarrow \text{CO}_2(\text{g}) + 3 \text{H}_2\text{O}(\text{g}) \quad \Delta h = 283 \text{ kJ}$
 $\text{C}_2\text{H}_6(\text{g})$

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 $\text{C}_2\text{H}_4(\text{g}) + 3 \text{O}_2(\text{g}) \rightarrow 2 \text{CO}_2(\text{g}) + 2 \text{H}_2\text{O}(\text{l}) \quad \Delta h = 1411 \text{ kJ/mole}$
 $\text{C}_2\text{H}_6(\text{g}) + 7/2 \text{O}_2(\text{g}) \rightarrow 2 \text{CO}_2(\text{g}) + 3 \text{H}_2\text{O}(\text{l}) \quad \Delta h = 1560 \text{ kJ/mole}$
 $\text{H}_2(\text{g}) + 1/2 \text{O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l}) \quad \Delta h = 285 \text{ kJ/mole}$

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web thus for reaction 9.2 in which 1 mole of H_3O^+ and 1 mole of OH^- combine to form 2 moles of H_2O $\Delta H = 55.8 \text{ kJ}$ as shown note that the enthalpy change $\Delta H_{\text{products}} - \Delta H_{\text{reactants}}$ is positive if heat is absorbed that is if $\Delta H_{\text{products}}$

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web objective the purpose of the lab is to combine two reactants in the calorimeter and measure the heats of reaction in solution eventually allowing an individual to prove or disprove hess's law introduction thermodynamics is the study of energy exchanged between the system and the surroundings

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web 3 12 hess's law in this experiment you will measure the amount of heat released in these three related exothermic reactions 1 $\text{NaOH (s)} + \text{Na}^+ \text{aq} + \text{OH}^- \text{aq} \rightarrow \text{H}_2\text{O (l)}$ 2 $\text{NaOH (s)} + \text{H}^+ \text{aq} \rightarrow \text{H}_2\text{O (l)}$ 3 $\text{NaOH (s)} + \text{H}^+ \text{aq} \rightarrow \text{H}_2\text{O (l)}$