Aluminium is usually found in +3 oxidation state. In contrast, thallium exists in +1 and +3 oxidation states. This is due to (2019 Main, 9 Jan I)

(a) lattice effect (b) lanthanoid contraction (c) inert pair effect (d) diagonal relationship

Due to inert pair effect, group-13 elements (ns^2np^1) show + 3 and + 1 oxidation states in their compounds. Stability order of these oxidation states will be as,

+ 3 oxidation states

$$B^{3+} > Al^{3+} > Ga^{3+} > In^{3+} > Tl^{3+}$$

 $\ensuremath{B^{3+}}$ does not exist in free states. All B(III) compounds are covalent.

+ 1 oxidation states

$$B^+ < Al^+ < Ga^+ < In^+ < Tl^+ \\$$

B+ does not exist in ionic as well covalent compounds.