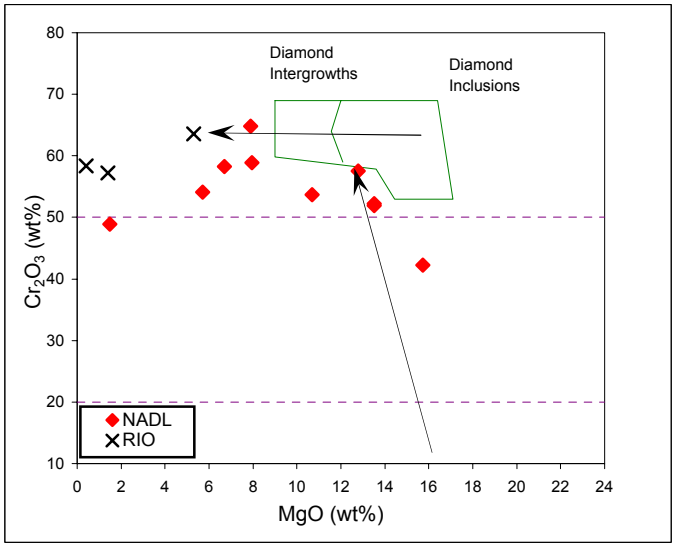

Fig 1. MgO vs Cr_2O_3. The horizontal arrow indicates an alteration trend of the macrocryst population, the near vertical arrow indicates a kimberlitic trend.

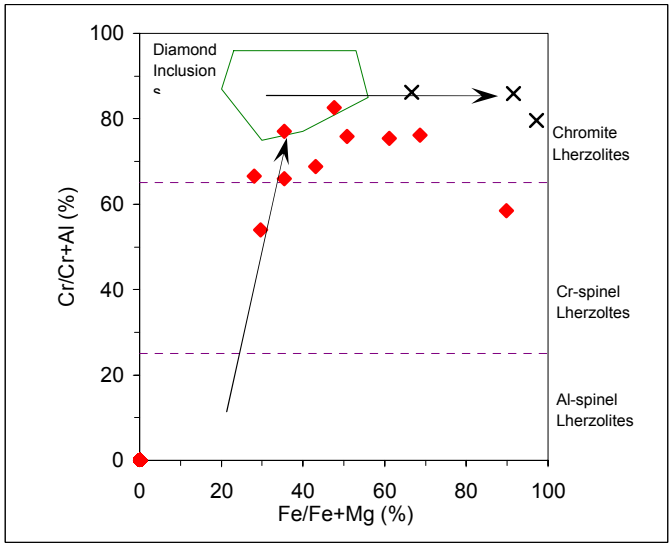

Fig 2. fe# vs cr#. Spinel lherzolite fields after Carswell (1980). Arrows indicate trends as in fig. 1.

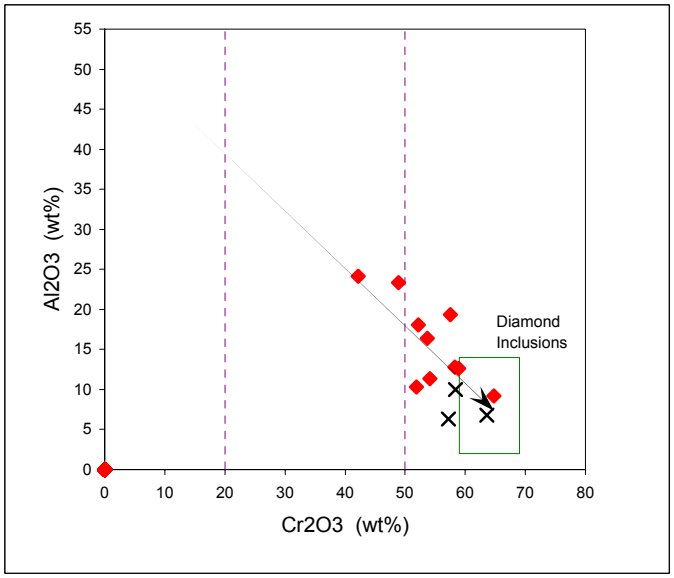

Fig 3. Cr_2O_3 vs Al_2O_3. Arrow indicates a kimberlitic trend.

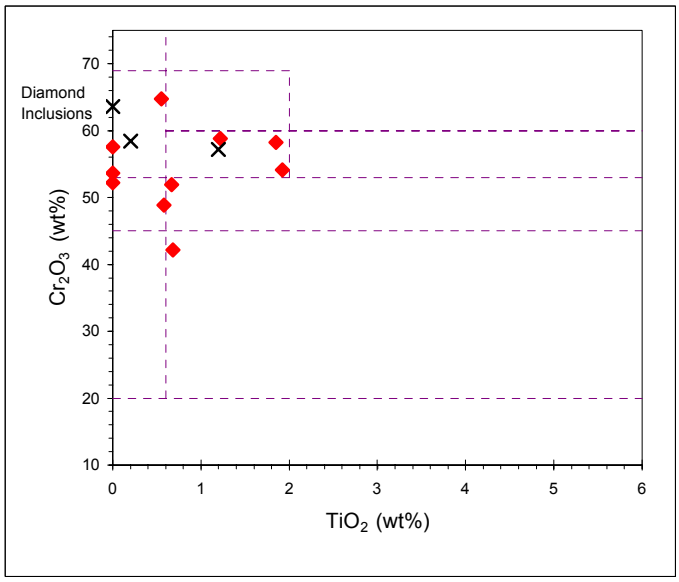

Fig 4. TiO_2 vs Cr_2O_3. TiO2 >0.6% can indicate kimberlitic alteration.

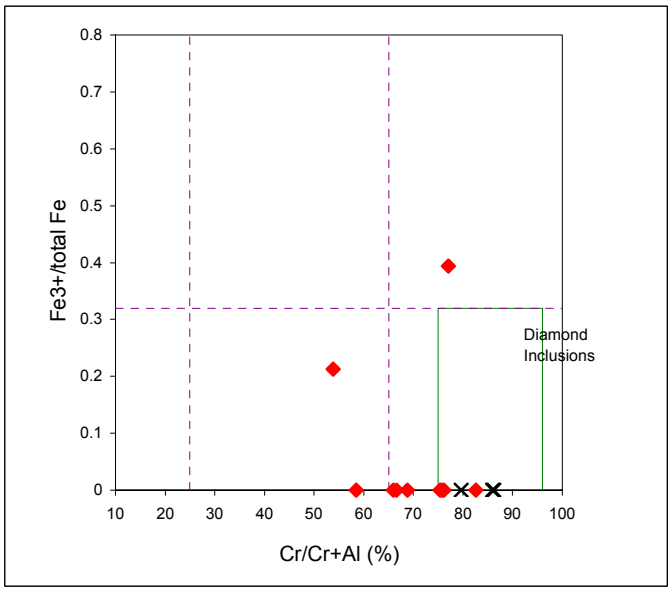

Fig 5. cr# vs $Fe^{3+}/Fe^{3+}+Fe^{2+}$. Fe^{3+}/Fe_{total} <0.3 indicates an oxidation state which is favourable for diamond preservation.

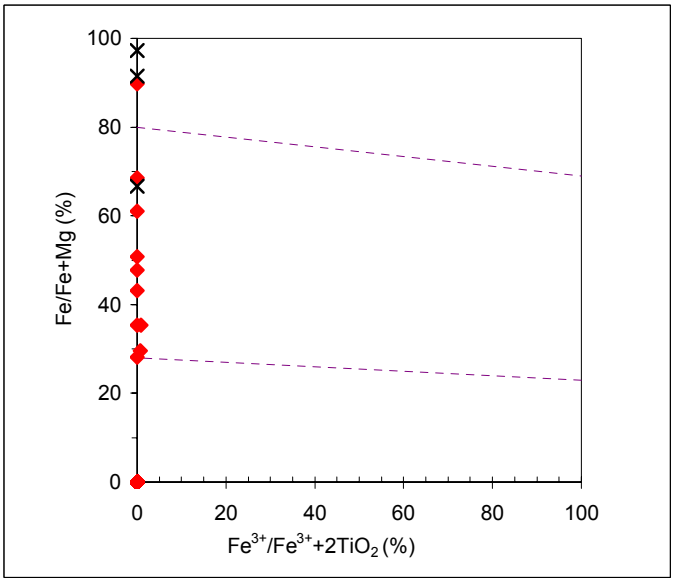

Fig 6. $Fe^{3+}/Fe^{3+}+2TiO_2$ vs fe#. The horizontal or near horizontal trend indicates a kimberlitic affinity.