TABLE 5. Diopside analyses.

OXIDES	81-LL-11+	81-LL-14	83-LL-17+	83-LL-61+	83-LL-143	83-LL-192+	83-LL-236+	83-LL-259+	83-LL-312+	90-DM-27	91-LS-5	92-LG-5	92-LG-8
SiO_2	55.43	54.75	54.47	54.63	54.44	54.81	54.44	55.08	54.57	55.63	53.29	54.82	55.06
TiO_2	<0.05	0.06	<0.05	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	0.44	<0.05	<0.05
Al_2O_3	0.45	1.32	0.32	0.43	1.49	0.52	0.34	0.50	0.35	0.28	1.75	0.34	0.42
Fe_2O_3*	0.00	0.00	0.75	0.00	0.48	0.16	0.00	0.00	0.38	0.00	1.30	0.88	1.22
MgO	18.10	17.99	18.19	18.33	18.03	18.30	18.66	18.21	18.65	18.92	17.77	18.25	18.65
CaO	25.80	25.43	25.37	25.54	25.89	25.26	24.92	24.90	25.27	26.19	25.64	25.67	25.54
MnO	<0.05	<0.05	<0.05	0.08	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	<0.05	<0.05	<0.05
FeO*	0.67	0.66	0.00	0.28	0.05	0.00	0.18	0.19	0.00	0.36	0.05	0.12	0.18
Na_2O	0.23	<0.05	0.26	0.25	<0.05	0.29	0.18	0.29	0.19	0.06	<0.05	0.17	0.20
total	100.68	100.20	99.36	99.54	100.52	99.34	98.72	99.17	99.41	101.50	100.24	100.25	101.27
Formulae normalized to 4 cations													
Si	1.987	1.973	1.977	1.975	1.956	1.984	1.978	1.999	1.975	1.974	1.925	1.974	1.962
Al^{IV}	0.013	0.027	0.014	0.018	0.044	0.016	0.015	0.001	0.015	0.012	0.075	0.014	0.018
Al^{VI}	0.006	0.029	0.000	0.000	0.019	0.006	0.000	0.021	0.000	0.000	0.000	0.000	0.000
Ti	<0.001	0.002	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	0.012	<0.001	<0.001
Fe^{3+}	0.000	0.000	0.021	0.000	0.013	0.004	0.000	0.000	0.010	0.000	0.035	0.024	0.029
Mg	0.967	0.966	0.984	0.988	0.965	0.987	1.015	0.985	1.006	1.001	0.959	0.981	0.992
Ca	0.991	0.982	0.986	0.990	0.997	0.980	0.974	0.968	0.980	0.996	0.993	0.990	0.975
Mn	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002
Fe^{2+}	0.020	0.020	0.000	0.008	0.002	0.000	0.005	0.006	0.000	0.011	0.000	0.003	0.009
Na	0.016	<0.001	0.018	0.018	<0.001	0.020	0.013	0.020	0.013	0.004	<0.001	0.012	0.014
X_{Mg}**	0.980	0.979	1.000	0.992	0.998	1.000	0.995	0.994	1.000	0.990	1.000	0.997	0.991

*FeO and Fe_2O_3 are recalculated from total FeO based on charge balance and stoichiometry (see text).

**$X_{Mg}=Mg/(Mg+Fe^{2+})$

+Data from Park (1986)