

## PDEs expressing the 4-index Q-functions

This appendix contains a list of PDEs, expressing all the 4-index  $Q$ -functions that were not elements of the basis for  $\Gamma(J, \mathcal{O}(2\Theta^{[5]}))$  as a linear combination of basis elements. The exceptions are  $Q_{1112}$  and  $Q_{1111}$ , which have not been given since they would require the calculation of  $C_{55}$  and  $C_{59}$  respectively.

The PDEs are ordered in decreasing weight (as indicated by the number in brackets).

$$\text{(-4)} \quad Q_{6666} = -3\wp_{55} + 4\wp_{46}$$

$$\text{(-5)} \quad Q_{5666} = -2\wp_{45}$$

$$\text{(-6)} \quad Q_{4666} = 6\lambda_4\wp_{66} - 2\wp_{44} - \frac{3}{2}Q_{5566}$$

$$\text{(-7)} \quad Q_{4566} = 2\lambda_4\wp_{56} + 2\wp_{36}$$

$$\text{(-7)} \quad Q_{5556} = 4\lambda_4\wp_{56} + 4\wp_{36}$$

$$\text{(-8)} \quad Q_{4466} = 4\lambda_4\wp_{46} + \lambda_4\wp_{55} + \wp_{35} + 6\wp_{26} - Q_{4556} + 4\lambda_3$$

$$\text{(-8)} \quad Q_{5555} = 16\lambda_4\wp_{55} + 4\wp_{35} + 24\wp_{26} - 6Q_{4556} + 16\lambda_3$$

$$\text{(-9)} \quad Q_{4456} = \frac{8}{3}\lambda_4\wp_{45} + 2\wp_{25} - \frac{4}{3}\wp_{34} - \frac{1}{6}Q_{4555}$$

$$\text{(-9)} \quad Q_{3666} = 2\lambda_4\wp_{45} - \frac{1}{2}Q_{4555}$$

$$\text{(-10)} \quad Q_{2666} = -\frac{1}{2}Q_{4455} - \frac{1}{2}Q_{3566} - \frac{1}{2}\lambda_4Q_{5566} + 4\wp_{66}\lambda_3$$

$$\text{(-10)} \quad Q_{4446} = 6\lambda_4\wp_{44} - 2\wp_{24} - 2\lambda_4^2\wp_{66} \\ - Q_{4455} + \frac{1}{2}\lambda_4Q_{5566} - \frac{5}{2}Q_{3566} + 4\wp_{66}\lambda_3$$

$$\text{(-11)} \quad Q_{3466} = 4\wp_{36}\lambda_4 - \frac{1}{2}Q_{3566}$$

$$\text{(-11)} \quad Q_{4445} = 6\wp_{36}\lambda_4 - 2\wp_{56}\lambda_4^2 + 8\wp_{56}\lambda_3 - 3Q_{2566} - \frac{3}{2}Q_{3556}$$

$$\text{(-12)} \quad Q_{2466} = 8\wp_{16} - \wp_{33} + 2\lambda_2 - \frac{1}{2}Q_{2456} - Q_{3456} + 4\lambda_4\wp_{26} + 2\lambda_4\wp_{35}$$

$$\text{(-12)} \quad Q_{3555} = 24\wp_{16} - 8\wp_{33} + 16\lambda_4\wp_{35} - 6Q_{3456}$$

$$\text{(-12)} \quad Q_{4444} = -12\wp_{16} + 9\wp_{33} + 6\lambda_2 + 12Q_{3456} + 12\wp_{55}\lambda_3 + 4\wp_{46}\lambda_4^2 \\ - 16\wp_{46}\lambda_3 - 3\wp_{55}\lambda_4^2 + 12\lambda_4\wp_{26} - 18\lambda_4\wp_{35} - 6Q_{2556}$$

$$\text{(-13)} \quad Q_{2555} = 2\wp_{15} - 8\wp_{23} + 16\wp_{25}\lambda_4 - 6Q_{2456}$$

$$\text{(-13)} \quad Q_{3446} = 6\wp_{15} - 4\wp_{23} + 4\wp_{25}\lambda_4 + \frac{8}{3}\wp_{34}\lambda_4 \\ + \frac{2}{3}\wp_{45}\lambda_4^2 - \frac{1}{6}Q_{4555}\lambda_4 - 2Q_{2456}$$

$$\text{(-13)} \quad Q_{3455} = -4\wp_{25}\lambda_4 + \frac{8}{3}\wp_{34}\lambda_4 - \frac{4}{3}\wp_{45}\lambda_4^2 + \frac{1}{3}Q_{4555}\lambda_4 + 2Q_{2456}$$

$$\text{(-14)} \quad Q_{1666} = -\frac{1}{2}\lambda_4Q_{3566} + Q_{3366} - \frac{1}{2}Q_{3445}$$

$$\text{(-14)} \quad Q_{2446} = \frac{8}{3}\wp_{14} - 2\wp_{22} + \frac{8}{3}\wp_{24}\lambda_4 - \frac{2}{3}\wp_{66}\lambda_4\lambda_3 + \frac{5}{6}Q_{3366} + Q_{5566}\lambda_3 \\ - \frac{1}{6}Q_{5566}\lambda_4^2 + 2\wp_{44}\lambda_3 - \frac{1}{6}\lambda_4Q_{4455} - \frac{4}{3}\lambda_4Q_{3566} - \frac{7}{6}Q_{3445}$$

$$\text{(-14)} \quad Q_{2455} = \frac{8}{3}\wp_{14} - 2\wp_{22} + \frac{8}{3}\wp_{24}\lambda_4 - \frac{2}{3}\wp_{66}\lambda_4\lambda_3 - \frac{5}{3}Q_{3366} - Q_{5566}\lambda_3 \\ + \frac{1}{3}Q_{5566}\lambda_4^2 + 6\wp_{66}\lambda_2 - 2\wp_{44}\lambda_3 + \frac{1}{3}\lambda_4Q_{4455} + \frac{2}{3}\lambda_4Q_{3566} \\ + \frac{1}{3}Q_{3445}$$

$$\begin{aligned}
(-15) \quad Q_{1566} &= -\frac{1}{4}Q_{2445} - \frac{1}{4}Q_{2455}\lambda_4 + \frac{3}{4}\wp_{2366} - \frac{3}{2}\wp_{23}\wp_{66} - 3\wp_{26}\wp_{36} \\
&\quad - \frac{1}{2}\wp_{36}\lambda_3 + \frac{3}{2}\wp_{56}\lambda_2 \\
(-15) \quad Q_{3356} &= -\frac{1}{2}Q_{2445} + 3\wp_{36}\lambda_3 + 3\wp_{56}\lambda_2 - \frac{1}{2}Q_{2566}\lambda_4 - \frac{1}{2}Q_{2366} \\
(-15) \quad Q_{3444} &= -\frac{3}{4}Q_{2445} + 4\wp_{36}\lambda_4^2 - \frac{3}{2}Q_{3556}\lambda_4 + \frac{13}{2}\wp_{36}\lambda_3 + \frac{9}{2}\wp_{56}\lambda_2 \\
&\quad - \frac{3}{4}Q_{2566}\lambda_4 - \frac{15}{4}Q_{2366} \\
(-16) \quad Q_{3346} &= -2Q_{1466} + 4\lambda_1 - Q_{1556} - Q_{2266} + 16\wp_{16}\lambda_4 + 3\wp_{35}\lambda_3 - \wp_{55}\lambda_2 \\
&\quad + 2\wp_{26}\lambda_3 - 2Q_{2356} \\
(-16) \quad Q_{3355} &= 8Q_{1466} - 8\lambda_1 + 6Q_{1556} - 32\wp_{16}\lambda_4 + 4\wp_{35}\lambda_3 \\
&\quad - 2Q_{2356} \\
(-16) \quad Q_{2444} &= +2\lambda_4\lambda_2 + 10\lambda_1 + 36\wp_{16}\lambda_4 + \frac{3}{2}\wp_{35}\lambda_3 + \frac{15}{2}\wp_{55}\lambda_2 - Q_{3456}\lambda_4 \\
&\quad - \frac{3}{2}Q_{2556}\lambda_4 - 7\wp_{26}\lambda_3 - 6\wp_{46}\lambda_2 + 3\wp_{33}\lambda_4 + 6\lambda_4\wp_{3456} \\
&\quad - 12\lambda_4\wp_{34}\wp_{56} - 12\lambda_4\wp_{35}\wp_{46} - 12\lambda_4\wp_{36}\wp_{45} + 4\wp_{26}\lambda_4^2 - 6\wp_{35}\lambda_4^2 \\
&\quad - 9Q_{1466} - 9Q_{1556} + \frac{3}{2}Q_{2266} + 3Q_{2356} \\
(-17) \quad Q_{1456} &= -2\wp_{13} - \wp_{45}\lambda_2 + 2\wp_{25}\wp_{26} + \wp_{22}\wp_{56} + 4\wp_{15}\lambda_4 - Q_{2346} \\
&\quad - \frac{1}{12}Q_{4555}\lambda_3 - \frac{1}{2}\wp_{2256} + \wp_{25}\lambda_3 + \frac{1}{3}\wp_{45}\lambda_4\lambda_3 + \frac{4}{3}\wp_{34}\lambda_3 \\
(-17) \quad Q_{1555} &= 4\wp_{13} + 6\wp_{45}\lambda_2 + 3Q_{2256} - 8\wp_{15}\lambda_4 + 6Q_{2346} + \frac{1}{2}Q_{4555}\lambda_3 \\
&\quad - 6\wp_{25}\lambda_3 - 2\wp_{45}\lambda_4\lambda_3 - 8\wp_{34}\lambda_3 \\
(-17) \quad Q_{2355} &= -4\wp_{13} - 4\wp_{45}\lambda_2 - 2Q_{2256} + 8\wp_{15}\lambda_4 - 2Q_{2346} \\
&\quad + 4\wp_{25}\lambda_3 + 4\wp_{34}\lambda_3 \\
(-17) \quad Q_{3345} &= -2\wp_{25}\lambda_3 + \frac{4}{3}\wp_{34}\lambda_3 - \frac{2}{3}\wp_{45}\lambda_4\lambda_3 + 2\wp_{45}\lambda_2 + Q_{2256} + \frac{1}{6}Q_{4555}\lambda_3 \\
(-18) \quad Q_{1446} &= -6\wp_{12} + 6\wp_{66}\lambda_1 + \frac{1}{2}Q_{3566}\lambda_4^2 - Q_{1455} + 8\wp_{14}\lambda_4 - Q_{3566}\lambda_3 \\
&\quad - Q_{2345} - \frac{1}{2}Q_{3344} - \frac{1}{2}Q_{3366}\lambda_4 + \frac{1}{2}Q_{3445}\lambda_4 \\
(-18) \quad Q_{2246} &= 2\wp_{44}\lambda_2 - 4\wp_{66}\lambda_1 - 2\wp_{66}\lambda_4\lambda_2 + \frac{1}{2}Q_{3566}\lambda_3 + Q_{3366}\lambda_4 \\
&\quad - Q_{3445}\lambda_4 - Q_{3566}\lambda_4^2 + 2\wp_{24}\lambda_3 + \frac{3}{2}Q_{5566}\lambda_2 + Q_{1455} \\
(-18) \quad Q_{2255} &= -8\wp_{12} - 8\wp_{44}\lambda_2 + 16\wp_{66}\lambda_1 + \frac{32}{3}\wp_{14}\lambda_4 + 8\wp_{66}\lambda_4\lambda_2 - 2Q_{2345} \\
&\quad - \frac{2}{3}Q_{3566}\lambda_3 - \frac{8}{3}Q_{3366}\lambda_4 + \frac{4}{3}Q_{3445}\lambda_4 + \frac{4}{3}Q_{3566}\lambda_4^2 + \frac{1}{3}Q_{4455}\lambda_3 \\
&\quad + \frac{1}{3}\lambda_4\lambda_3\wp_{5566} - \frac{2}{3}\lambda_4\lambda_3\wp_{55}\wp_{66} - \frac{4}{3}\lambda_4\lambda_3\wp_{56}^2 - \frac{8}{3}\wp_{66}\lambda_3^2 + \frac{8}{3}\wp_{24}\lambda_3 \\
&\quad + 4\wp_{23}\wp_{45} + 4\wp_{24}\wp_{35} + 4\wp_{25}\wp_{34} - 3Q_{5566}\lambda_2 - 2Q_{1455} \\
(-19) \quad Q_{1366} &= -\frac{3}{10}Q_{2245} - \frac{2}{5}Q_{2344} - \frac{3}{10}Q_{2566}\lambda_3 - \frac{1}{4}Q_{2366}\lambda_4 + \frac{3}{20}Q_{2455}\lambda_4 \\
&\quad + \frac{3}{20}Q_{2566}\lambda_4^2 + \frac{12}{5}\wp_{56}\lambda_1 - \frac{3}{10}\wp_{56}\lambda_4\lambda_2 + \frac{7}{10}\wp_{36}\lambda_4\lambda_3 \\
&\quad + \frac{9}{5}\wp_{36}\lambda_2 - \frac{1}{4}Q_{3556}\lambda_3 \\
(-19) \quad Q_{3336} &= -\frac{3}{5}Q_{2245} + \frac{6}{5}Q_{2344} - \frac{3}{5}Q_{2566}\lambda_3 + \frac{3}{2}Q_{2366}\lambda_4 + \frac{3}{10}Q_{2455}\lambda_4 \\
&\quad + \frac{3}{10}Q_{2566}\lambda_4^2 + \frac{38}{5}\wp_{36}\lambda_2 - \frac{16}{5}\wp_{56}\lambda_1 - \frac{3}{5}\wp_{56}\lambda_4\lambda_2 \\
&\quad - \frac{33}{5}\wp_{36}\lambda_4\lambda_3 + \frac{3}{2}Q_{3556}\lambda_3
\end{aligned}$$

$$\begin{aligned}
(-19) \quad Q_{1445} &= -\frac{1}{2}Q_{2245} - Q_{2344} - \frac{1}{2}Q_{2566}\lambda_3 - \frac{3}{2}Q_{2366}\lambda_4 + 8\wp_{56}\lambda_1 + 3\wp_{36}\lambda_2 \\
&\quad + \frac{1}{2}Q_{2566}\lambda_4^2 + \frac{1}{2}Q_{2455}\lambda_4 - 2\wp_{56}\lambda_4\lambda_2 + 3\wp_{36}\lambda_4\lambda_3 - \frac{3}{4}Q_{3556}\lambda_3 \\
(-20) \quad Q_{2244} &= +2\lambda_3\lambda_2 + 28\lambda_4\lambda_1 + 2\wp_{55}\lambda_4\lambda_2 - 6\wp_{35}\lambda_4\lambda_3 + 3\wp_{33}\lambda_3 \\
&\quad - 24\wp_{46}\lambda_1 + 112\wp_{16}\lambda_4^2 - 44\wp_{16}\lambda_3 + 28\wp_{55}\lambda_1 + 9\wp_{35}\lambda_2 \\
&\quad + 20Q_{1356} - 6Q_{1444} + 10Q_{1266} - 22Q_{1466}\lambda_4 + Q_{2266}\lambda_4 \\
&\quad + 2Q_{2356}\lambda_4 + 2Q_{3456}\lambda_3 - 22Q_{1556}\lambda_4 - Q_{2556}\lambda_3 - 6\wp_{26}\lambda_2 \\
(-20) \quad Q_{2336} &= 8\wp_{16}\lambda_3 - 2\wp_{55}\lambda_1 + 2\wp_{35}\lambda_2 - 2Q_{1356} - 2Q_{1266} \\
(-20) \quad Q_{3335} &= -32\lambda_4\lambda_1 + 24\wp_{46}\lambda_1 - 128\wp_{16}\lambda_4^2 + 56\wp_{16}\lambda_3 - 32\wp_{55}\lambda_1 \\
&\quad - 30Q_{1356} + 8Q_{1444} - 12Q_{1266} + 24Q_{1466}\lambda_4 + 24Q_{1556}\lambda_4 \\
&\quad + 4\wp_{35}\lambda_2 \\
(-21) \quad Q_{1256} &= -\frac{1}{2}Q_{2236} - Q_{1346} - \frac{1}{12}Q_{4555}\lambda_2 + \frac{1}{3}\wp_{45}\lambda_4\lambda_2 + 3\wp_{15}\lambda_3 \\
&\quad + \frac{4}{3}\wp_{34}\lambda_2 - 2\wp_{45}\lambda_1 \\
(-21) \quad Q_{1355} &= \frac{1}{2}Q_{2236} + Q_{1346} + \frac{1}{4}Q_{4555}\lambda_2 - \frac{1}{2}Q_{2335} - \wp_{45}\lambda_4\lambda_2 + \wp_{15}\lambda_3 \\
(-21) \quad Q_{3334} &= -\frac{3}{2}Q_{2236} - 3Q_{1346} + \frac{1}{4}Q_{4555}\lambda_2 + \frac{3}{2}Q_{2335} - \wp_{45}\lambda_4\lambda_2 + 9\wp_{15}\lambda_3 \\
&\quad + 12\wp_{34}\lambda_2 - 8\wp_{45}\lambda_1 \\
(-22) \quad Q_{1345} &= 5\wp_{66}\lambda_0 - \wp_{11} + \frac{16}{15}\wp_{14}\lambda_4^2 + \frac{11}{5}\wp_{66}\lambda_4\lambda_1 - \frac{7}{30}Q_{3566}\lambda_4\lambda_3 \\
&\quad - \frac{1}{5}Q_{3344}\lambda_4 - \frac{1}{2}Q_{1255} + \frac{10}{3}\wp_{14}\lambda_3 - \wp_{44}\lambda_1 - Q_{1246} \\
&\quad + \frac{2}{15}Q_{3566}\lambda_4^3 - \frac{1}{15}Q_{3366}\lambda_4^2 - \frac{1}{3}Q_{3366}\lambda_3 + \frac{1}{6}Q_{3445}\lambda_3 \\
&\quad - \frac{2}{5}Q_{2345}\lambda_4 - \frac{4}{5}\wp_{12}\lambda_4 + \frac{2}{15}Q_{3445}\lambda_4^2 \\
(-22) \quad Q_{2226} &= -6\wp_{11} + \frac{7}{2}Q_{3566}\lambda_2 + \frac{1}{2}Q_{4455}\lambda_2 + 6Q_{5566}\lambda_1 + \frac{32}{5}\wp_{14}\lambda_4^2 \\
&\quad - \frac{14}{5}\wp_{66}\lambda_4\lambda_1 - \frac{39}{10}Q_{3566}\lambda_4\lambda_3 - \frac{24}{5}\wp_{12}\lambda_4 + 4\wp_{24}\lambda_2 - 10\wp_{66}\lambda_0 \\
&\quad + 12\wp_{14}\lambda_3 + 6\wp_{44}\lambda_1 - 2\wp_{66}\lambda_3\lambda_2 - 6Q_{1246} + \frac{4}{5}Q_{3445}\lambda_4^2 \\
&\quad - \frac{6}{5}Q_{3344}\lambda_4 - \frac{2}{5}Q_{3366}\lambda_4^2 + \frac{3}{2}Q_{3366}\lambda_3 - \frac{3}{2}Q_{3445}\lambda_3 - \frac{12}{5}Q_{2345}\lambda_4 \\
&\quad + \frac{4}{5}Q_{3566}\lambda_4^3 + \frac{1}{2}Q_{5566}\lambda_4\lambda_2 \\
(-22) \quad Q_{2235} &= -2\wp_{11} - Q_{3566}\lambda_2 - 4Q_{5566}\lambda_1 - \frac{32}{15}\wp_{14}\lambda_4^2 + \frac{38}{5}\wp_{66}\lambda_4\lambda_1 \\
&\quad + \frac{22}{15}Q_{3566}\lambda_4\lambda_3 + \frac{8}{5}\wp_{12}\lambda_4 + 10\wp_{66}\lambda_0 - Q_{1255} + \frac{4}{3}\wp_{14}\lambda_3 \\
&\quad - 10\wp_{44}\lambda_1 + 2Q_{1246} - \frac{4}{15}Q_{3445}\lambda_4^2 + \frac{2}{5}Q_{3344}\lambda_4 + \frac{2}{15}Q_{3366}\lambda_4^2 \\
&\quad - \frac{4}{3}Q_{3366}\lambda_3 + \frac{2}{3}Q_{3445}\lambda_3 + \frac{4}{5}Q_{2345}\lambda_4 - \frac{4}{15}Q_{3566}\lambda_4^3 \\
(-22) \quad Q_{2334} &= -4\wp_{11} - Q_{3566}\lambda_2 + 2Q_{5566}\lambda_1 - \frac{32}{15}\wp_{14}\lambda_4^2 - \frac{32}{5}\wp_{66}\lambda_4\lambda_1 \\
&\quad + \frac{7}{15}Q_{3566}\lambda_4\lambda_3 + \frac{8}{5}\wp_{12}\lambda_4 + Q_{1255} + \frac{4}{3}\wp_{14}\lambda_3 + 4\wp_{44}\lambda_1 \\
&\quad - \frac{4}{15}Q_{3445}\lambda_4^2 + \frac{2}{5}Q_{3344}\lambda_4 + \frac{2}{15}Q_{3366}\lambda_4^2 + \frac{2}{3}Q_{3366}\lambda_3 \\
&\quad - \frac{1}{3}Q_{3445}\lambda_3 + \frac{4}{5}Q_{2345}\lambda_4 - \frac{4}{15}Q_{3566}\lambda_4^3
\end{aligned}$$

$$\begin{aligned}
(-23) \quad Q_{1344} &= 6\wp_{36}\lambda_1 + \frac{3}{5}\wp_{36}\lambda_4\lambda_2 - \frac{1}{10}\wp_{56}\lambda_4^2\lambda_2 + \frac{24}{5}\wp_{56}\lambda_4\lambda_1 - 3\wp_{56}\lambda_3\lambda_2 \\
&\quad + \frac{29}{10}\wp_{36}\lambda_4^2\lambda_3 + \wp_{36}\lambda_3^2 + \frac{2}{5}Q_{2566}\lambda_4\lambda_3 - \frac{3}{4}Q_{3556}\lambda_4\lambda_3 - 2Q_{1246} \\
&\quad + 10\wp_{56}\lambda_0 + \frac{1}{20}Q_{2566}\lambda_4^3 + \frac{1}{2}Q_{2445}\lambda_3 - \frac{3}{2}Q_{2366}\lambda_3 \\
&\quad - \frac{3}{4}Q_{2366}\lambda_4^2 - \frac{4}{5}Q_{2344}\lambda_4 - \frac{1}{10}Q_{2245}\lambda_4 + \frac{1}{20}Q_{2445}\lambda_4^2 \\
(-23) \quad Q_{2225} &= 24\wp_{36}\lambda_1 - \frac{36}{5}\wp_{36}\lambda_4\lambda_2 + \frac{6}{5}\wp_{56}\lambda_4^2\lambda_2 + \frac{52}{5}\wp_{56}\lambda_4\lambda_1 - 7\wp_{56}\lambda_3\lambda_2 \\
&\quad + 3Q_{3556}\lambda_2 - 3\wp_{36}\lambda_3^2 + \frac{27}{10}Q_{2566}\lambda_4\lambda_3 - 3Q_{3556}\lambda_4\lambda_3 \\
&\quad + \frac{66}{5}\wp_{36}\lambda_4^2\lambda_3 - 6Q_{1246} + 20\wp_{56}\lambda_0 - \frac{3}{5}Q_{2566}\lambda_4^3 + \frac{3}{2}Q_{2445}\lambda_3 \\
&\quad - \frac{3}{5}Q_{2445}\lambda_4^2 - 3Q_{2366}\lambda_4^2 - \frac{3}{2}Q_{2366}\lambda_3 - \frac{12}{5}Q_{2344}\lambda_4 \\
&\quad - 3Q_{2566}\lambda_2 + \frac{6}{5}Q_{2245}\lambda_4 \\
(-23) \quad Q_{2234} &= -4\wp_{36}\lambda_1 + \frac{14}{5}\wp_{36}\lambda_4\lambda_2 + \frac{8}{5}\wp_{56}\lambda_4^2\lambda_2 - \frac{28}{5}\wp_{56}\lambda_4\lambda_1 + \frac{3}{2}\wp_{56}\lambda_3\lambda_2 \\
&\quad - \frac{29}{5}\wp_{36}\lambda_4^2\lambda_3 - \frac{1}{2}\wp_{36}\lambda_3^2 - \frac{1}{20}Q_{2566}\lambda_4\lambda_3 + \frac{3}{2}Q_{3556}\lambda_4\lambda_3 \\
&\quad + 2Q_{1246} - \frac{1}{10}Q_{2566}\lambda_4^3 - \frac{1}{4}Q_{2445}\lambda_3 + \frac{3}{4}Q_{2366}\lambda_3 - \frac{1}{10}Q_{2445}\lambda_4^2 \\
&\quad + \frac{3}{2}Q_{2366}\lambda_4^2 + \frac{8}{5}Q_{2344}\lambda_4 + \frac{8}{5}Q_{2245}\lambda_4 - \frac{3}{2}Q_{3556}\lambda_2 \\
(-24) \quad Q_{1336} &= \wp_{35}\lambda_1 - 2\wp_{26}\lambda_1 + 4\wp_{46}\lambda_0 - 3\wp_{55}\lambda_0 + 4\wp_{16}\lambda_2 - Q_{1166} \\
(-24) \quad Q_{3333} &= -256\wp_{16}\lambda_4^3 - 50\wp_{35}\lambda_1 + 16\wp_{16}\lambda_4\lambda_3 - 72\wp_{55}\lambda_4\lambda_1 - 32\lambda_3\lambda_1 \\
&\quad + 4\wp_{33}\lambda_2 + 48\wp_{46}\lambda_4\lambda_1 - 64\lambda_4^2\lambda_1 + 6Q_{1166} - 36Q_{1266}\lambda_4 \\
&\quad + 72\wp_{46}\lambda_0 - 72Q_{1356}\lambda_4 - 54\wp_{55}\lambda_0 + 16Q_{1444}\lambda_4 + 48Q_{1556}\lambda_4^2 \\
&\quad + 24Q_{1466}\lambda_3 + 12Q_{1244} + 36\wp_{26}\lambda_1 + 48Q_{1466}\lambda_4^2 + 24Q_{1556}\lambda_3 \\
(-24) \quad Q_{2224} &= 6\lambda_2^2 - 6Q_{1244} - 3\wp_{26}\lambda_3^2 - 40\wp_{46}\lambda_0 + 9\wp_{33}\lambda_2 + 18\lambda_3\lambda_1 \\
&\quad + 48\lambda_4^2\lambda_1 + 192\wp_{16}\lambda_4^3 - \frac{9}{2}\wp_{35}\lambda_3^2 + 3Q_{2356}\lambda_3 + 24Q_{1266}\lambda_4 \\
&\quad - 24\wp_{26}\lambda_1 + 48Q_{1356}\lambda_4 - 12Q_{1444}\lambda_4 - 12\wp_{16}\lambda_2 - 36Q_{1556}\lambda_4^2 \\
&\quad - 15Q_{1466}\lambda_3 + 36\wp_{35}\lambda_1 - 36Q_{1466}\lambda_4^2 + 3Q_{3456}\lambda_2 + \frac{3}{2}Q_{2266}\lambda_3 \\
&\quad - 15Q_{1556}\lambda_3 + \frac{3}{2}Q_{2556}\lambda_2 + 30\wp_{55}\lambda_0 + 54\wp_{55}\lambda_4\lambda_1 - 24\wp_{16}\lambda_4\lambda_3 \\
&\quad + 2\wp_{46}\lambda_3\lambda_2 + \frac{3}{2}\wp_{55}\lambda_3\lambda_2 - 40\wp_{46}\lambda_4\lambda_1 \\
(-25) \quad Q_{1236} &= 2\wp_{15}\lambda_2 + \frac{4}{3}\wp_{34}\lambda_1 - 3\wp_{45}\lambda_0 - \wp_{25}\lambda_1 + \frac{1}{3}\wp_{45}\lambda_4\lambda_1 \\
&\quad - \frac{1}{2}Q_{1156} - \frac{1}{12}Q_{4555}\lambda_1 \\
(-25) \quad Q_{1335} &= 4\wp_{15}\lambda_2 + \frac{4}{3}\wp_{34}\lambda_1 - 2\wp_{45}\lambda_0 - 2\wp_{25}\lambda_1 - \frac{2}{3}\wp_{45}\lambda_4\lambda_1 \\
&\quad - Q_{1156} + \frac{1}{6}Q_{4555}\lambda_1 \\
(-25) \quad Q_{2333} &= 4\wp_{34}\lambda_1 + 4\wp_{23}\lambda_2 - 6\wp_{45}\lambda_0 - 2\wp_{25}\lambda_1 - 2\wp_{45}\lambda_4\lambda_1 \\
&\quad + 3Q_{1156} + \frac{1}{2}Q_{4555}\lambda_1
\end{aligned}$$

$$\begin{aligned}
(-26) \quad Q_{1235} &= \frac{4}{3}\wp_{66}\lambda_3\lambda_1 + 8\wp_{66}\lambda_4\lambda_0 - \frac{4}{3}\wp_{24}\lambda_1 - 8\wp_{44}\lambda_0 - \frac{1}{2}Q_{1155} \\
&\quad - \frac{1}{6}Q_{5566}\lambda_4\lambda_1 + \frac{1}{3}Q_{3566}\lambda_4\lambda_2 - \frac{5}{2}Q_{5566}\lambda_0 + \frac{8}{3}\wp_{14}\lambda_2 \\
&\quad - \frac{2}{3}Q_{3366}\lambda_2 - \frac{2}{3}Q_{3566}\lambda_1 + \frac{1}{3}Q_{3445}\lambda_2 - \frac{1}{6}Q_{4455}\lambda_1 \\
(-26) \quad Q_{1226} &= \frac{8}{5}\wp_{14}\lambda_4\lambda_3 + \frac{2}{15}\wp_{66}\lambda_3\lambda_1 - 6\wp_{66}\lambda_4\lambda_0 + \frac{2}{3}\wp_{24}\lambda_1 + 2\wp_{44}\lambda_0 \\
&\quad + \frac{1}{3}Q_{5566}\lambda_4\lambda_1 - \frac{1}{10}Q_{3366}\lambda_4\lambda_3 + \frac{1}{5}Q_{3445}\lambda_4\lambda_3 + \frac{1}{5}Q_{3566}\lambda_4^2\lambda_3 \\
&\quad - \frac{1}{6}Q_{3566}\lambda_4\lambda_2 + \frac{5}{2}Q_{5566}\lambda_0 + \frac{8}{3}\wp_{14}\lambda_2 - \frac{6}{5}\wp_{12}\lambda_3 - \frac{3}{10}Q_{3344}\lambda_3 \\
&\quad + \frac{1}{3}Q_{4455}\lambda_1 + \frac{1}{3}Q_{3366}\lambda_2 + \frac{11}{6}Q_{3566}\lambda_1 - \frac{1}{6}Q_{3445}\lambda_2 - Q_{1146} \\
&\quad - \frac{3}{5}Q_{3566}\lambda_3^2 - \frac{3}{5}Q_{2345}\lambda_3 \\
(-26) \quad Q_{2233} &= -\frac{16}{5}\wp_{14}\lambda_4\lambda_3 - \frac{64}{15}\wp_{66}\lambda_3\lambda_1 + 4\wp_{66}\lambda_4\lambda_0 - \frac{4}{3}\wp_{24}\lambda_1 - 4\wp_{44}\lambda_0 \\
&\quad + Q_{1155} + \frac{1}{3}Q_{5566}\lambda_4\lambda_1 + \frac{1}{5}Q_{3366}\lambda_4\lambda_3 - \frac{2}{5}Q_{3445}\lambda_4\lambda_3 \\
&\quad - \frac{2}{5}Q_{3566}\lambda_4^2\lambda_3 - \frac{2}{3}Q_{3566}\lambda_4\lambda_2 + \frac{8}{3}\wp_{14}\lambda_2 - 8\wp_{11}\lambda_4 + \frac{32}{5}\wp_{12}\lambda_3 \\
&\quad + \frac{3}{5}Q_{3344}\lambda_3 + \frac{1}{3}Q_{4455}\lambda_1 + \frac{1}{3}Q_{3366}\lambda_2 - \frac{5}{3}Q_{3566}\lambda_1 - \frac{2}{3}Q_{3445}\lambda_2 \\
&\quad + 2Q_{1146} + \frac{6}{5}Q_{3566}\lambda_3^2 + \frac{6}{5}Q_{2345}\lambda_3 \\
(-26) \quad Q_{1334} &= -2\wp_{66}\lambda_4\lambda_0 - 2\wp_{24}\lambda_1 + 6\wp_{44}\lambda_0 + 4\wp_{14}\lambda_2 - Q_{1146} \\
&\quad - \frac{1}{2}Q_{3566}\lambda_1 + \frac{5}{2}Q_{5566}\lambda_0 \\
(-27) \quad Q_{1225} &= -\frac{13}{10}\wp_{36}\lambda_3\lambda_2 + \frac{33}{10}\wp_{36}\lambda_4\lambda_3^2 + 2\wp_{56}\lambda_4\lambda_0 + \frac{8}{5}\wp_{56}\lambda_3\lambda_1 - \frac{3}{2}\wp_{56}\lambda_2^2 \\
&\quad + \frac{1}{4}Q_{2566}\lambda_4\lambda_2 - \frac{3}{20}Q_{2445}\lambda_4\lambda_3 - \frac{3}{20}Q_{2566}\lambda_4^2\lambda_3 - \frac{3}{4}Q_{2366}\lambda_4\lambda_3 \\
&\quad - Q_{1145} + \frac{3}{2}Q_{3556}\lambda_1 - \frac{3}{4}Q_{2366}\lambda_2 - \frac{3}{5}Q_{2344}\lambda_3 + \frac{1}{4}Q_{2445}\lambda_2 \\
&\quad + \frac{3}{10}Q_{2245}\lambda_3 - \frac{3}{4}Q_{3556}\lambda_3^2 - Q_{2566}\lambda_1 + \frac{3}{10}Q_{2566}\lambda_3^2 \\
&\quad + \frac{3}{10}\wp_{56}\lambda_4\lambda_3\lambda_2 + 10\wp_{36}\lambda_0 \\
(-27) \quad Q_{1234} &= \frac{1}{2}\wp_{36}\lambda_3\lambda_2 + 3\wp_{56}\lambda_4\lambda_0 + \frac{1}{4}Q_{2566}\lambda_4\lambda_2 - \frac{1}{2}Q_{1145} - \frac{3}{4}Q_{3556}\lambda_1 \\
&\quad - \frac{3}{4}Q_{2366}\lambda_2 + \frac{1}{4}Q_{2445}\lambda_2 + 2\wp_{36}\lambda_4\lambda_1 + \frac{1}{2}Q_{2566}\lambda_1 - \frac{3}{2}\wp_{56}\lambda_2^2 \\
&\quad + 5\wp_{36}\lambda_0 \\
(-27) \quad Q_{2223} &= -\frac{38}{5}\wp_{36}\lambda_3\lambda_2 - \frac{27}{5}\wp_{36}\lambda_4\lambda_3^2 + 6\wp_{56}\lambda_4\lambda_0 - \frac{24}{5}\wp_{56}\lambda_3\lambda_1 \\
&\quad + \frac{3}{5}\wp_{56}\lambda_4\lambda_3\lambda_2 - \frac{3}{10}Q_{2445}\lambda_4\lambda_3 - \frac{3}{10}Q_{2566}\lambda_4^2\lambda_3 + \frac{3}{2}Q_{2366}\lambda_4\lambda_3 \\
&\quad + 3Q_{1145} - \frac{3}{2}Q_{3556}\lambda_1 + 3Q_{2366}\lambda_2 + \frac{9}{5}Q_{2344}\lambda_3 + \frac{3}{5}Q_{2566}\lambda_3^2 \\
&\quad + \frac{3}{5}Q_{2245}\lambda_3 + 8\wp_{36}\lambda_4\lambda_1 + \frac{3}{2}Q_{3556}\lambda_3^2 - 3Q_{2566}\lambda_1 - 10\wp_{36}\lambda_0 \\
(-28) \quad Q_{1224} &= 12\lambda_4\lambda_3\lambda_1 - 3Q_{1444}\lambda_3 - 8\wp_{46}\lambda_3\lambda_1 + 48\wp_{16}\lambda_4^2\lambda_3 + 16\wp_{16}\lambda_4\lambda_2 \\
&\quad + 3\wp_{35}\lambda_4\lambda_1 - 2\wp_{26}\lambda_4\lambda_1 + 3\wp_{55}\lambda_4\lambda_0 - 4\wp_{46}\lambda_4\lambda_0 + 12\wp_{55}\lambda_3\lambda_1 \\
&\quad - 3Q_{1466}\lambda_2 + 6Q_{1266}\lambda_3 + 6\lambda_2\lambda_1 - 9Q_{1556}\lambda_4\lambda_3 - 9Q_{1466}\lambda_4\lambda_3 \\
&\quad - 24\wp_{16}\lambda_3^2 + 3\wp_{33}\lambda_1 + 15\wp_{35}\lambda_0 + 12Q_{1356}\lambda_3 - 10\wp_{26}\lambda_0 \\
&\quad - 4\wp_{16}\lambda_1 - Q_{1155} - 3Q_{1556}\lambda_2
\end{aligned}$$

$$\begin{aligned}
(-28) \quad Q_{2222} &= +6Q_{2266}\lambda_2 + 16\lambda_4\lambda_3\lambda_1 + 42\wp_{35}\lambda_4\lambda_1 + 12\wp_{33}\lambda_4\lambda_2 - 30\wp_{35}\lambda_0 \\
&\quad - 72\wp_{46}\lambda_4\lambda_0 - 48\wp_{16}\lambda_4\lambda_2 - 12Q_{1556}\lambda_4\lambda_3 + 72\wp_{55}\lambda_4^2\lambda_1 \\
&\quad - 16\wp_{26}\lambda_3\lambda_2 - 28\wp_{26}\lambda_4\lambda_1 - 12Q_{1466}\lambda_4\lambda_3 - 48\wp_{46}\lambda_4^2\lambda_1 \\
&\quad - 12\wp_{35}\lambda_3\lambda_2 - 80\wp_{16}\lambda_4^2\lambda_3 - 12Q_{1244}\lambda_4 + 6Q_{1144} - 3\wp_{33}\lambda_3^2 \\
&\quad + 64\lambda_4^3\lambda_1 + 256\wp_{16}\lambda_4^4 + 3\wp_{55}\lambda_2^2 + 8\lambda_4\lambda_2^2 + 36Q_{1266}\lambda_4^2 \\
&\quad - 12\wp_{55}\lambda_3\lambda_1 + 12Q_{2356}\lambda_2 - 48Q_{1466}\lambda_4^3 - 16Q_{1444}\lambda_4^2 \\
&\quad + 72Q_{1356}\lambda_4^2 - 48Q_{1556}\lambda_4^3 - 6Q_{2556}\lambda_1 + 12\wp_{46}\lambda_2^2 - 2\lambda_3^2\lambda_2 \\
&\quad - 12Q_{1266}\lambda_3 + 4\lambda_2\lambda_1 + 52\wp_{16}\lambda_3^2 + 18\wp_{33}\lambda_1 + 54\wp_{55}\lambda_4\lambda_0 \\
&\quad - 24Q_{1356}\lambda_3 + 20\wp_{26}\lambda_0 - 24\wp_{16}\lambda_1 + 4Q_{1444}\lambda_3 + 12Q_{3456}\lambda_1 \\
(-29) \quad Q_{1136} &= -4\wp_{25}\lambda_0 + \frac{2}{3}\wp_{45}\lambda_4\lambda_0 + 2\wp_{15}\lambda_1 + \frac{8}{3}\wp_{34}\lambda_0 - \frac{1}{6}Q_{4555}\lambda_0 \\
(-29) \quad Q_{1333} &= 4\wp_{13}\lambda_2 - 12\wp_{25}\lambda_0 - 4\wp_{45}\lambda_4\lambda_0 + 4\wp_{15}\lambda_1 + 8\wp_{34}\lambda_0 + Q_{4555}\lambda_0 \\
(-30) \quad Q_{1126} &= \frac{16}{15}\wp_{14}\lambda_4\lambda_2 + \frac{6}{5}\wp_{66}\lambda_2\lambda_1 - 4\wp_{66}\lambda_3\lambda_0 + \frac{1}{2}Q_{5566}\lambda_4\lambda_0 \\
&\quad + \frac{1}{6}Q_{3566}\lambda_4\lambda_1 + \frac{2}{15}Q_{3445}\lambda_4\lambda_2 + \frac{2}{15}Q_{3566}\lambda_4^2\lambda_2 - \frac{2}{5}Q_{3566}\lambda_3\lambda_2 \\
&\quad + \frac{1}{6}Q_{3445}\lambda_1 + \frac{4}{3}\wp_{14}\lambda_1 - \frac{4}{5}\wp_{12}\lambda_2 + \frac{1}{2}Q_{4455}\lambda_0 - \frac{1}{5}Q_{3344}\lambda_2 \\
&\quad - \frac{3}{5}Q_{3566}\lambda_0 + \frac{1}{6}Q_{3366}\lambda_1 - \frac{2}{5}Q_{2345}\lambda_2 - \frac{1}{15}Q_{3366}\lambda_4\lambda_2 \\
(-30) \quad Q_{1135} &= \frac{16}{3}\wp_{66}\lambda_3\lambda_0 - \frac{16}{3}\wp_{24}\lambda_0 - \frac{2}{3}Q_{5566}\lambda_4\lambda_0 + \frac{1}{3}Q_{3566}\lambda_4\lambda_1 \\
&\quad + \frac{8}{3}\wp_{14}\lambda_1 + \frac{1}{3}Q_{3445}\lambda_1 - \frac{2}{3}Q_{4455}\lambda_0 - \frac{5}{3}Q_{3566}\lambda_0 - \frac{2}{3}Q_{3366}\lambda_1 \\
(-30) \quad Q_{1233} &= -\frac{16}{15}\wp_{14}\lambda_4\lambda_2 - \frac{6}{5}\wp_{66}\lambda_2\lambda_1 + \frac{10}{3}\wp_{66}\lambda_3\lambda_0 - \frac{16}{3}\wp_{24}\lambda_0 + \frac{16}{3}\wp_{14}\lambda_1 \\
&\quad + \frac{1}{15}Q_{3366}\lambda_4\lambda_2 - \frac{1}{3}Q_{3566}\lambda_4\lambda_1 - \frac{2}{15}Q_{3445}\lambda_4\lambda_2 - \frac{2}{15}Q_{3566}\lambda_4^2\lambda_2 \\
&\quad + \frac{2}{5}Q_{2345}\lambda_2 - 2\wp_{11}\lambda_3 + \frac{24}{5}\wp_{12}\lambda_2 - 2\wp_{22}\lambda_1 - \frac{1}{3}Q_{3445}\lambda_1 \\
&\quad + \frac{2}{5}Q_{3566}\lambda_3\lambda_2 + \frac{1}{3}Q_{4455}\lambda_0 + \frac{1}{5}Q_{3344}\lambda_2 - \frac{5}{3}Q_{3566}\lambda_0 \\
&\quad - \frac{1}{3}Q_{3366}\lambda_1 + \frac{1}{3}Q_{5566}\lambda_4\lambda_0 \\
(-31) \quad Q_{1125} &= 2\wp_{36}\lambda_3\lambda_1 + \frac{11}{5}\wp_{36}\lambda_4\lambda_3\lambda_2 - \frac{1}{2}Q_{2366}\lambda_4\lambda_2 + \frac{1}{5}Q_{2566}\lambda_3\lambda_2 \\
&\quad - \frac{1}{2}Q_{3556}\lambda_3\lambda_2 - \frac{1}{10}Q_{2566}\lambda_4^2\lambda_2 - \frac{1}{10}Q_{2445}\lambda_4\lambda_2 + 2Q_{3556}\lambda_0 \\
&\quad + \frac{1}{5}Q_{2245}\lambda_2 + \frac{1}{5}\wp_{56}\lambda_4\lambda_2^2 - Q_{2366}\lambda_1 - Q_{2566}\lambda_0 - \frac{2}{5}Q_{2344}\lambda_2 \\
&\quad + \frac{2}{5}\wp_{56}\lambda_2\lambda_1 - \frac{6}{5}\wp_{36}\lambda_2^2 \\
(-31) \quad Q_{1223} &= \frac{1}{2}Q_{2445}\lambda_1 - \frac{9}{5}\wp_{36}\lambda_2^2 - \frac{3}{20}Q_{2566}\lambda_4^2\lambda_2 + \frac{1}{4}Q_{2366}\lambda_4\lambda_2 \\
&\quad + \frac{1}{4}Q_{3556}\lambda_3\lambda_2 + \frac{3}{10}Q_{2566}\lambda_3\lambda_2 - \frac{7}{10}\wp_{36}\lambda_4\lambda_3\lambda_2 + \frac{3}{10}Q_{2245}\lambda_2 \\
&\quad + \frac{1}{2}Q_{2366}\lambda_1 + 6\wp_{56}\lambda_3\lambda_0 - Q_{3556}\lambda_0 - \frac{3}{20}Q_{2445}\lambda_4\lambda_2 \\
&\quad + \frac{1}{2}Q_{2566}\lambda_4\lambda_1 - 2Q_{2566}\lambda_0 + \frac{2}{5}Q_{2344}\lambda_2 - \frac{27}{5}\wp_{56}\lambda_2\lambda_1 \\
&\quad + 8\wp_{36}\lambda_4\lambda_0 - \wp_{36}\lambda_3\lambda_1 + \frac{3}{10}\wp_{56}\lambda_4\lambda_2^2
\end{aligned}$$

$$\begin{aligned}
(-31) \quad Q_{1134} &= \frac{1}{4}\lambda_4\lambda_1\wp_{2566} + 4\wp_{36}\lambda_4\lambda_0 - \frac{3}{4}Q_{2366}\lambda_1 - \frac{3}{2}\wp_{56}\lambda_2\lambda_1 + 2Q_{2566}\lambda_0 \\
&\quad + \frac{1}{2}\wp_{36}\lambda_3\lambda_1 - \frac{1}{2}\lambda_4\lambda_1\wp_{25}\wp_{66} + \frac{1}{4}Q_{2445}\lambda_1 - \frac{3}{2}Q_{3556}\lambda_0 \\
&\quad - \lambda_4\lambda_1\wp_{26}\wp_{56} \\
(-32) \quad Q_{1124} &= 2\lambda_1^2 + \wp_{26}\lambda_3\lambda_1 - 6Q_{1466}\lambda_4\lambda_2 - 6Q_{1556}\lambda_4\lambda_2 + 6\wp_{35}\lambda_4\lambda_0 \\
&\quad + \frac{15}{2}\wp_{55}\lambda_2\lambda_1 + 8\lambda_4\lambda_2\lambda_1 - 16\wp_{16}\lambda_3\lambda_2 + 32\wp_{16}\lambda_4^2\lambda_2 - 4\wp_{16}\lambda_0 \\
&\quad + \frac{3}{2}\wp_{35}\lambda_3\lambda_1 - 6\wp_{46}\lambda_2\lambda_1 - 4\wp_{26}\lambda_4\lambda_0 + \frac{1}{2}Q_{2556}\lambda_0 + 8\wp_{16}\lambda_4\lambda_1 \\
&\quad - Q_{1556}\lambda_1 - Q_{2356}\lambda_1 - Q_{3456}\lambda_0 + 2\lambda_2\lambda_0 + 4Q_{1266}\lambda_2 \\
&\quad + 8Q_{1356}\lambda_2 - \frac{1}{2}Q_{2266}\lambda_1 + 3\wp_{33}\lambda_0 - Q_{1466}\lambda_1 - 2Q_{1444}\lambda_2 \\
(-32) \quad Q_{1222} &= 4\lambda_1^2 - 18\wp_{26}\lambda_3\lambda_1 - 6Q_{1466}\lambda_4\lambda_2 - 6Q_{1556}\lambda_4\lambda_2 + 9\wp_{55}\lambda_2\lambda_1 \\
&\quad + 12\lambda_4\lambda_2\lambda_1 - 12\wp_{16}\lambda_3\lambda_2 + 32\wp_{16}\lambda_4^2\lambda_2 + 8\wp_{16}\lambda_4\lambda_1 \\
&\quad + 64\wp_{16}\lambda_4^3\lambda_3 - 4\wp_{16}\lambda_4\lambda_3^2 + 18Q_{1356}\lambda_4\lambda_3 + 9Q_{1266}\lambda_4\lambda_3 \\
&\quad - 24\wp_{46}\lambda_3\lambda_0 + 18\wp_{55}\lambda_3\lambda_0 + 16\lambda_4^2\lambda_3\lambda_1 - 4Q_{1444}\lambda_4\lambda_3 \\
&\quad - 12Q_{1466}\lambda_4^2\lambda_3 - 12Q_{1556}\lambda_4^2\lambda_3 + 6\wp_{33}\lambda_4\lambda_1 - 12\wp_{46}\lambda_4\lambda_3\lambda_1 \\
&\quad + 18\wp_{55}\lambda_4\lambda_3\lambda_1 - 3Q_{2556}\lambda_0 - 16\wp_{16}\lambda_0 + 8\lambda_3^2\lambda_1 - 6Q_{1556}\lambda_3^2 \\
&\quad - 3Q_{1244}\lambda_3 - 6Q_{1466}\lambda_3^2 - 6Q_{1556}\lambda_1 + 6Q_{2356}\lambda_1 + 6Q_{3456}\lambda_0 \\
&\quad + 8\lambda_2\lambda_0 + 3Q_{1266}\lambda_2 - 2Q_{1444}\lambda_2 + 6Q_{1356}\lambda_2 + 3Q_{2266}\lambda_1 \\
&\quad + 12\wp_{33}\lambda_0 - 6Q_{1466}\lambda_1 + 9\wp_{35}\lambda_3\lambda_1 \\
(-34) \quad Q_{1116} &= -4\wp_{66}\lambda_2\lambda_0 - \frac{3}{5}Q_{3566}\lambda_3\lambda_1 + \frac{3}{2}Q_{3566}\lambda_4\lambda_0 - \frac{1}{10}Q_{3366}\lambda_4\lambda_1 \\
&\quad + \frac{1}{5}Q_{3445}\lambda_4\lambda_1 + \frac{1}{5}Q_{3566}\lambda_4^2\lambda_1 - \frac{3}{5}Q_{2345}\lambda_1 + \frac{14}{5}\wp_{66}\lambda_1^2 \\
&\quad + \frac{3}{2}Q_{3445}\lambda_0 - \frac{3}{10}Q_{3344}\lambda_1 - \frac{6}{5}\wp_{12}\lambda_1 + \frac{8}{5}\wp_{14}\lambda_4\lambda_1 \\
(-34) \quad Q_{1133} &= 8\wp_{66}\lambda_2\lambda_0 + \frac{2}{5}Q_{3566}\lambda_3\lambda_1 - \frac{2}{3}Q_{3566}\lambda_4\lambda_0 + \frac{1}{15}Q_{3366}\lambda_4\lambda_1 \\
&\quad - \frac{2}{15}Q_{3566}\lambda_4^2\lambda_1 + \frac{2}{5}Q_{2345}\lambda_1 + \frac{32}{3}\wp_{14}\lambda_0 - 8\wp_{22}\lambda_0 - \frac{5}{3}Q_{3366}\lambda_0 \\
&\quad - \frac{16}{5}\wp_{66}\lambda_1^2 - \frac{16}{15}\wp_{14}\lambda_4\lambda_1 - \frac{2}{3}Q_{3445}\lambda_0 + \frac{1}{5}Q_{3344}\lambda_1 + \frac{24}{5}\wp_{12}\lambda_1 \\
&\quad - \frac{2}{15}Q_{3445}\lambda_4\lambda_1 \\
(-35) \quad Q_{1115} &= -\frac{3}{4}Q_{2445}\lambda_0 + \frac{33}{10}\wp_{36}\lambda_4\lambda_3\lambda_1 + \frac{3}{10}\wp_{56}\lambda_4\lambda_2\lambda_1 + \frac{3}{10}Q_{2566}\lambda_3\lambda_1 \\
&\quad - \frac{3}{20}Q_{2566}\lambda_4^2\lambda_1 - \frac{3}{20}Q_{2445}\lambda_4\lambda_1 - \frac{3}{4}Q_{2366}\lambda_4\lambda_1 - \frac{3}{4}Q_{3556}\lambda_3\lambda_1 \\
&\quad + \frac{3}{4}Q_{2566}\lambda_4\lambda_0 + 2\frac{1}{2}\wp_{36}\lambda_3\lambda_0 + \frac{1}{2}\wp_{56}\lambda_2\lambda_0 - \frac{3}{5}Q_{2344}\lambda_1 \\
&\quad - \frac{15}{4}Q_{2366}\lambda_0 + \frac{8}{5}\wp_{56}\lambda_1^2 - \frac{9}{5}\wp_{36}\lambda_2\lambda_1 + \frac{3}{10}Q_{2245}\lambda_1 \\
(-35) \quad Q_{1123} &= Q_{2445}\lambda_0 + \frac{2}{5}\wp_{36}\lambda_4\lambda_3\lambda_1 + \frac{2}{5}\wp_{56}\lambda_4\lambda_2\lambda_1 + \frac{2}{5}Q_{2566}\lambda_3\lambda_1 \\
&\quad + \frac{3}{10}Q_{2245}\lambda_1 - \frac{1}{5}Q_{2566}\lambda_4^2\lambda_1 - \frac{1}{5}Q_{2445}\lambda_4\lambda_1 + Q_{2566}\lambda_4\lambda_0 \\
&\quad + 2\wp_{36}\lambda_3\lambda_0 - 2\wp_{56}\lambda_2\lambda_0 + \frac{1}{5}Q_{2344}\lambda_1 + \frac{2}{5}Q_{2245}\lambda_1 - \frac{16}{5}\wp_{56}\lambda_1^2 \\
&\quad - \frac{12}{5}\wp_{36}\lambda_2\lambda_1
\end{aligned}$$

$$\begin{aligned}
(-36) \quad Q_{1114} &= 6\wp_{26}\lambda_3\lambda_0 - 3\wp_{55}\lambda_2\lambda_0 - 4\wp_{46}\lambda_2\lambda_0 + 48\wp_{16}\lambda_4^2\lambda_1 - 24\wp_{16}\lambda_3\lambda_1 \\
&\quad + 3Q_{2266}\lambda_0 + 12Q_{1356}\lambda_1 + 9\wp_{35}\lambda_3\lambda_0 + 3Q_{1466}\lambda_0 + 3Q_{1556}\lambda_0 \\
&\quad + 6Q_{1266}\lambda_1 - 3Q_{1444}\lambda_1 - 6Q_{2356}\lambda_0 - 9Q_{1466}\lambda_4\lambda_1 \\
&\quad + 12\lambda_4\lambda_1^2 - 8\wp_{46}\lambda_1^2 + 12\wp_{55}\lambda_1^2 - 6\lambda_0\wp_{2266} + 12\lambda_0\wp_{22}\wp_{66} \\
&\quad + 24\lambda_0\wp_{26}^2 - 9Q_{1556}\lambda_4\lambda_1 \\
(-36) \quad Q_{1122} &= -2Q_{1244}\lambda_2 + \frac{40}{3}\lambda_4\lambda_1^2 - 8Q_{1556}\lambda_0 + 3Q_{2266}\lambda_0 + 12Q_{1356}\lambda_1 \\
&\quad - 8\wp_{46}\lambda_1^2 - 8Q_{1466}\lambda_0 + 12\wp_{55}\lambda_1^2 - \frac{10}{3}Q_{1444}\lambda_1 + 6Q_{1266}\lambda_1 \\
&\quad + 6Q_{2356}\lambda_0 + \wp_{33}\lambda_3\lambda_1 + \frac{20}{3}\lambda_1\lambda_0 - \frac{8}{3}\wp_{16}\lambda_4\lambda_3\lambda_2 + \frac{32}{3}\lambda_4^2\lambda_2\lambda_1 \\
&\quad + \frac{16}{3}\lambda_4\lambda_2\lambda_0 + 6\lambda_3\lambda_2\lambda_1 + 9\wp_{35}\lambda_2\lambda_1 - \frac{8}{3}Q_{1444}\lambda_4\lambda_2 \\
&\quad + 8\wp_{33}\lambda_4\lambda_0 + \frac{128}{3}\wp_{16}\lambda_4^3\lambda_2 - 6\wp_{26}\lambda_2\lambda_1 - 8Q_{1556}\lambda_4^2\lambda_2 \\
&\quad - 8Q_{1466}\lambda_4^2\lambda_2 + 6Q_{1266}\lambda_4\lambda_2 - 4Q_{1466}\lambda_3\lambda_2 + 12Q_{1356}\lambda_4\lambda_2 \\
&\quad - 4Q_{1556}\lambda_3\lambda_2 - 8\wp_{46}\lambda_4\lambda_2\lambda_1 + 12\wp_{55}\lambda_4\lambda_2\lambda_1 - 10Q_{1556}\lambda_4\lambda_1 \\
&\quad - 10Q_{1466}\lambda_4\lambda_1 - \frac{76}{3}\wp_{16}\lambda_3\lambda_1 - 8\wp_{46}\lambda_2\lambda_0 + \frac{160}{3}\wp_{16}\lambda_4^2\lambda_1 \\
&\quad - 12\wp_{26}\lambda_3\lambda_0 + 12\wp_{55}\lambda_2\lambda_0 + 16\wp_{16}\lambda_4\lambda_0 \\
(-39) \quad Q_{1113} &= -2\wp_{36}\lambda_1^2 - \wp_{36}\lambda_2\lambda_0 - \frac{3}{4}Q_{3556}\lambda_3\lambda_0 + \frac{3}{2}Q_{2566}\lambda_3\lambda_0 \\
&\quad - \frac{3}{4}Q_{2366}\lambda_4\lambda_0 - \frac{3}{4}Q_{2445}\lambda_4\lambda_0 - 6\wp_{56}\lambda_1\lambda_0 - \frac{3}{4}Q_{2566}\lambda_4^2\lambda_0 \\
&\quad + \frac{3}{2}Q_{2245}\lambda_0 + \frac{9}{2}\wp_{36}\lambda_4\lambda_3\lambda_0 + \frac{3}{2}\wp_{56}\lambda_4\lambda_2\lambda_0 \\
(-40) \quad Q_{1112} &= 8\lambda_3\lambda_1^2 + 4\lambda_3\lambda_2\lambda_0 + 32\lambda_4\lambda_1\lambda_0 + 6\wp_{33}\lambda_3\lambda_0 - 68\wp_{16}\lambda_3\lambda_0 \\
&\quad + 6\wp_{35}\lambda_2\lambda_0 + 64\wp_{16}\lambda_4^3\lambda_1 + 128\wp_{16}\lambda_4^2\lambda_0 - 12\wp_{46}\lambda_4\lambda_1^2 \\
&\quad + 42\wp_{55}\lambda_1\lambda_0 - 36\wp_{46}\lambda_1\lambda_0 + 18\wp_{55}\lambda_4\lambda_1^2 - 4\wp_{26}\lambda_2\lambda_0 \\
&\quad + 18Q_{1356}\lambda_1\lambda_4 - 4Q_{1444}\lambda_1\lambda_4 - 12Q_{1556}\lambda_4^2\lambda_1 - 6Q_{1466}\lambda_3\lambda_1 \\
&\quad - 24Q_{1556}\lambda_0\lambda_4 - 24Q_{1466}\lambda_0\lambda_4 + 9Q_{1266}\lambda_1\lambda_4 - 6Q_{1556}\lambda_3\lambda_1 \\
&\quad - 12Q_{1466}\lambda_4^2\lambda_1 - 4\wp_{16}\lambda_4\lambda_3\lambda_1 + 16\lambda_4^2\lambda_1^2 + 30Q_{1356}\lambda_0 \\
&\quad - 8Q_{1444}\lambda_0 + 15Q_{1266}\lambda_0 - 3Q_{1244}\lambda_1 - 8\wp_{26}\lambda_1^2 + 12\wp_{35}\lambda_1^2
\end{aligned}$$