

22 1889 33 1900

28

---

32

---

Ruby Spinel

36

37

Vermeille

58

Rubelite

64

86

20

P185

190

192

---

---

---

P204

P204

Spinel Ruby

P225

---

5 1917

P110

---

---

---

P190

---

---

P192

---

11 1922

---

5

1877 2

( 37/1962 182 )

1877

1883

1886 E.Jannetaz

1882 " "

1882 1883  
1 100

1885 Wyse

---

( 33 /1958 136

re-constructed stone

1895

1890 1900

1892 1 100 150  
1904 0.3 1904

( 41 1966 P335)

( ) 20 (1887 1897)

1895

Michaud

1958

22 1989

5 1917

49 1974

7 1932

29 11

1922

[https://www.jstage.jst.go.jp/article/geosoc1893/29/346/29\\_346\\_276/\\_pdf](https://www.jstage.jst.go.jp/article/geosoc1893/29/346/29_346_276/_pdf)