Variance:

$$var(V_{ij}) = \ldots = 2pq\alpha^2 + (2pqol)^2$$
$$= \sigma_A^2 + \sigma_D^2$$

Using the decomposition:

$$var(V_{ij}) = var(\mu + BV_{ij} + D_{ij})$$
$$= var(BV_{ij}) + var(D_{ij})$$
$$= \sigma_A^2 + \sigma_D^2$$

with $var(BV_{ij}) = \sigma_A^2 = 2pq\alpha^2$ ← genetic additive variance

$$var(D_{ij}) = \sigma_D^2 = (2pqol)^2$$