Decomposition from Grozin/Neubert:

$$\langle 0|\,\bar{q}(0)\Gamma_1 G_{\mu\nu}(0) b_v(0)\,|B\rangle = \frac{-i}{6}F(\mu)\{\lambda_H^2(\mu)\cdot \mathrm{Tr}[\Gamma_1 P_+\gamma_5\sigma_{\mu\nu}] + [\lambda_H^2(\mu)-\lambda_E^2(\mu)]\cdot \mathrm{Tr}[\Gamma_1 P_+\gamma_5(iv_\mu\gamma_\nu - iv_\nu\gamma_\mu)]\} \quad (1)$$

What about:

$$\sigma_{\mu\alpha}v^\alpha v_\nu \quad (2)$$

$$\begin{aligned}
&\langle 0|\,\bar{q}(0)\Gamma_1 g_s G_{\mu\nu}(0) b_v(0)\,|B\rangle\,\langle B|\,\bar{b}_v(x)\Gamma_2 g_s G_{\rho\sigma}(x) q(x)\,|0\rangle \\
&= \frac{-i}{6}F(\mu)\Big[\lambda_H^2(\mu)\cdot \mathrm{Tr}[\Gamma_1 P_+\gamma_5\sigma_{\mu\nu}] + [\lambda_H^2(\mu)-\lambda_E^2(\mu)]\cdot \mathrm{Tr}[\Gamma_1 P_+\gamma_5(iv_\mu\gamma_\nu - iv_\nu\gamma_\mu)]\Big]\cdot \\
&\frac{-i}{6}F^\dagger(\mu)\Big[\lambda_H^2 \mathrm{Tr}[\gamma_5 P_+\Gamma_2\sigma_{\rho\sigma}] - (\lambda_H^2-\lambda_E^2)\cdot \mathrm{Tr}[\gamma_5 P_+\Gamma_2(iv_\rho\gamma_\sigma - iv_\sigma\gamma_\rho)]\Big] \\
&= F(\mu)^2\big[-\frac{1}{36}\lambda_H^4 \mathrm{Tr}\{\sigma_{\mu\nu}\Gamma_1 P_+\Gamma_2\ \sigma_{\rho\sigma}\} + \frac{1}{36}\lambda_H^2(\lambda_H^2-\lambda_E^2)\mathrm{Tr}\{\sigma_{\mu\nu}\Gamma_1 P_+\Gamma_2(iv_\rho\gamma_\sigma - iv_\sigma\gamma_\rho)\} - \\
&\frac{1}{36}\lambda_H^2(\lambda_H^2-\lambda_E^2)\mathrm{Tr}\{(iv_\mu\gamma_\nu - iv_\nu\gamma_\mu)\Gamma_1 P_+\Gamma_2\sigma_{\rho\sigma}\} + \\
&\frac{1}{36}(\lambda_H^2-\lambda_E^2)^2\mathrm{Tr}\{(iv_\mu\gamma_\nu - iv_\nu\gamma_\mu)\Gamma_1 P_+\Gamma_2(iv_\rho\gamma_\sigma - iv_\sigma\gamma_\rho)\}\big]
\end{aligned} \quad (3)$$

Perform mapping:

$$\mathrm{Tr}\{\Gamma_1 P_+\Gamma_2\ \sigma_{\rho\sigma}\sigma_{\mu\nu}\} = \mathrm{Tr}[\Gamma_1 P_+\Gamma_2]\cdot\Big[A\cdot(g_{\mu\rho}g_{\nu\sigma} - g_{\mu\sigma}g_{\nu\rho}) + B\cdot(-g_{\nu\rho}v_\mu v_\rho + g_{\mu\sigma}v_\nu v_\rho + g_{\nu\rho}v_\mu v_\sigma - g_{\mu\rho}v_\nu v_\sigma)\Big] \quad (4)$$

$$\mathrm{Tr}\{\Gamma_1 P_+\Gamma_2(iv_\rho\gamma_\sigma - iv_\sigma\gamma_\rho)(iv_\mu\gamma_\nu - iv_\nu\gamma_\mu)\} = \mathrm{Tr}[\Gamma_1 P_+\Gamma_2]\cdot\Big[A\cdot(g_{\mu\rho}g_{\nu\sigma} - g_{\mu\sigma}g_{\nu\rho}) + B\cdot(-g_{\nu\rho}v_\mu v_\rho + g_{\mu\sigma}v_\nu v_\rho + g_{\nu\rho}v_\mu v_\sigma - g_{\mu\rho}v_\nu v_\sigma)\Big] \quad (5)$$

$$\mathrm{Tr}\{\Gamma_1 P_+\Gamma_2(iv_\rho\gamma_\sigma - iv_\sigma\gamma_\rho)\sigma_{\mu\nu}\} + \mathrm{Tr}\{\Gamma_1 P_+\Gamma_2(iv_\mu\gamma_\nu - iv_\nu\gamma_\mu)\sigma_{\rho\sigma}\} = \Big[A\cdot(g_{\mu\rho}g_{\nu\sigma} - g_{\mu\sigma}g_{\nu\rho}) + B\cdot(-g_{\nu\rho}v_\mu v_\rho + g_{\mu\sigma}v_\nu v_\rho + g_{\nu\rho}v_\mu v_\sigma - g_{\mu\rho}v_\nu v_\sigma)\Big] \quad (6)$$