

Observable	Condition
Lepton origin	Direct decay of $H \rightarrow W^+W^-$
Lepton flavors; lepton charge	$e\mu$ (not from $\tau$ decay); opposite
Leading lepton $p_T$	$p_T^{l_1} > 25 \text{ GeV}$
Trailing lepton $p_T$	$p_T^{l_2} > 13 \text{ GeV}$
$ \eta $ of leptons	$ \eta  < 2.5$
Dilepton mass	$m^{ll} > 12 \text{ GeV}$
$p_T$ of the dilepton system	$p_T^{ll} > 30 \text{ GeV}$
Transverse mass using trailing lepton	$m_T^{l_2} > 30 \text{ GeV}$
Higgs boson transverse mass	$m_T^H > 60 \text{ GeV}$