

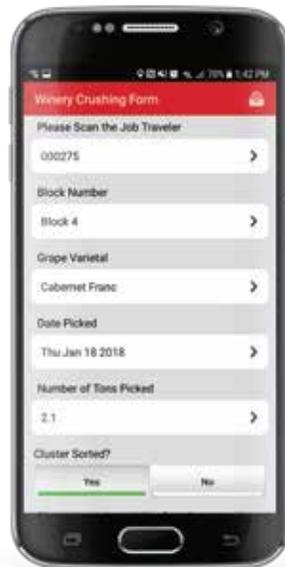
# Vineyard & Winemaking Management



**SMARTCAT™**



The process begins in the vineyard using a vineyard observation form. Start by opening the form and tapping the NFC Wall Tag at the head of the block to record the vine's location, varietal and date planted. Next, input data such as vine moisture or Brix measurement and highlight any potential issues with the vine.



When it is time to harvest, a winery crushing form tracks the grapes weight and volume throughout the sorting, destemming and crushing processes. Use SmartCAT to tap the NFC Wall Tag at the head of the block to log the grapes' varietal, vineyard location and date picked.

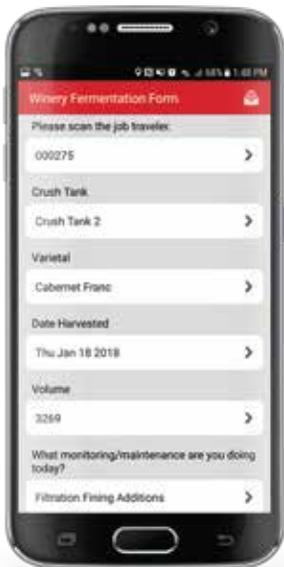


Then input information such as crush tank used, if the skin was left in contact and if anything was added. When finished, record the volume of the crushed grapes then tap the NFC Asset Tag on the transport bin to record the grapes' movement as they move to the next process.

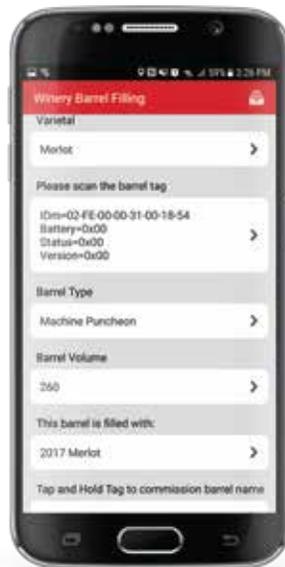
## Barrel Tracking With The ePaper NFC Tag



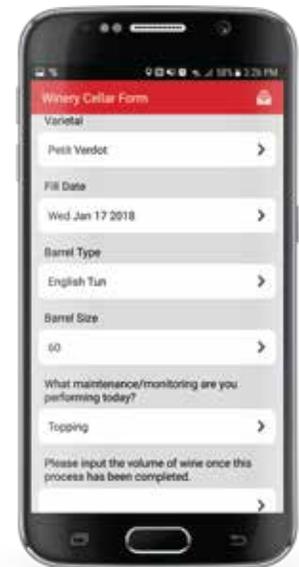
Empty barrels are tagged with the ePaper NFC Tags. Using a barrel commissioning form, tap the tag to input information such as the barrel's toast level, type and size. Once complete, tap the tag again to display the information on the tag's screen.



During fermentation, use a winery fermentation form to track the grapes' varying volume through bleeding and punchdown processes. Using SmartCAT, tap the NFC Asset Tag to populate the varietal, crush tank used and harvest date. From there, add the completed maintenance job and the final volume.



When grapes are ready for filling, use SmartCAT to tap the NFC ePaper Tag located on the barrel. The winery barrel filling form populates the barrel's type, toast and volume. Finish by inputting the barrel's contents then tap the NFC ePaper Tag again to change its display to reflect the contents along with person who filled it and last maintenance date.



As the aging process continues, use a winery cellar form on SmartCAT to tap the barrel's NFC ePaper Tag to populate the form with data about the barrel and its contents. Continue to input the volume and observations during blending and maintenance.

Accurate data must be collected and accessible throughout each of the complex winemaking processes in order to perform quality control inspections and maintain regulations. SmartCAT & NFC RFID Tags maximize visibility into records by tracking each process from harvest to completed product, allowing a winemaker to trace a grape back to the soil it came from.