

#### Planning a Successful Bottling Day

#### Pat Henderson, Kenwood Vineyards

Yountville, CA August 16, 2017

#wvpack

#### Do's and don'ts: Managing quality control for bottling day

Pat Henderson Chief Winemaker Kenwood Vineyards

# Winemaker's Perspective

- Wine Quality must be preserved throughout bottling.
  - You can't change it once it is in the bottle
- Insure compliance
- Quality Assurance vs Quality Control (QA/QC)

## Some Assumptions:

- Package is ready materials in stock
  - Cork testing
- Line is ready machines set up for package before wine is sent to line
- Wine is finished
  - Heat & cold stabile
  - Clarified and adjusted
  - Wine is complainant with label and label has approved COLA
  - Wine tastes right
  - No surprises

# **Bottling Sign Off**

- Final Analysis
- Composition check
- Appellation
- 2 person sign off
- Line does not start line w/o sign off
- This is a re-check of what you should already know

# **Sterile Bottling**

- Not absolutely necessary for stable dry wine but benefits outweigh the costs
- Sanitation- steam vs. hot water
  - Measure from coldest part of the filler
  - Log time and temp
  - Cool down when done
  - Bioluminescence test
- Membrane filters
  - Integrity testing Pressure hold/bubble point
  - If not sterile bottling use a tight screen as a "bug catcher"

#### **Steam Generator**



- Faster
- Uses much less water

# Start Up

- Check with line manager all is ready to go before bring wine to filler
- Dump first bottle filled from each filler valve

## Start up Alcohol Check

- Alcohol
  - Compliance
  - Integrity
  - Must match sign off



- These tests are done and start up and throughout the day
  - Fill level by weight & density

• Dissolved Oxygen (DO)





• Torque test – screw cap



• Bottle vacuum – cork



- Done by machine on every bottle
- Essential for fast lines with case packing machines.
- SOP with standards and actions to take if any readings are out of spec

• Time/date stamp – laser etched in glass



 Vision System – label compliance and appearance and capsule/screw cap check



- Weight check finds missing bottles and low fills
- Case label and barcode scan

# Archiving:

- All information on wine is archived and saved as PDF files
  - Final analysis and bottling sign off
  - COLA
  - Work order back track report –bottling to weigh tags
  - Full composition and appellation report
  - Additive/treatment report
- We could always generate these reports at a later date but it is nice to have everything stored in one place and backed up

## Before Release:

- Before wine is shipped to distributors
- Taste test by winemakers
  - Approved for release



#### Planning a Successful Bottling Day

#### Pat Henderson, Kenwood Vineyards

Yountville, CA August 16, 2017

#wvpack