



December 8, 2017

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CERTIFICATE OF ANALYSIS FOR OAK LOT No. 2151046

Expiration Date: With uncompromised and sealed bag - a minimum of 10 years.

This lot meets the specification below for French Oak:

	<u>Specification</u>	<u>Results</u>
Sensory:	No off order, taint (TCA or other) TCA <0.2ng/g (ppb)	None Passes, Meets spec or <0.2ng/g (ppb)
Microbiological:	Free from Brettanomyces, mold or any other form of rot or decay	*N/A For Oak Barrel Alternatives

*Response: We do not use any water on our oak after the staves have gone through our toasting regime. So, there is zero potential for Brettanomyces to form on our staves.

Alan F Sullivan