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CERTIFICATE OF ANALYSIS
200 PROOF DENATURED ETHANOL
SDA 40B

COA Number: 42320
Sample Test Date: 4/23/20
Load Out Date: 4/23/20
Tank / Railcar Number: Samples
Analyzed By: Peg Freese

| <u>Quality Parameter</u> | <u>Result</u> | <u>Specification</u> | <u>Test Method</u> |
|--------------------------|---------------|----------------------|--------------------|
| Acidity | <30 | <30 as acetic acid | ASTM D7795 |
| Ethanol, vol% | 99.5 | 94.0 minimum | ASTM D5501 |
| Methanol, vol% | 0.0 | 0.5max | ASTM D5501 |
| Water, vol% | 0.7787 | 1.00 max | ASTM E1064 |
| pH | 7.5 | 6.0-8.0 | ASTM D4806 |
| Appearance, 15°C | Pass | Clear and Bright | Visual Examination |
| Density, 15°C | 0.7924 | 0.7839-0.7972 | ASTM D4052 |