

6034 Corporate Dr. East Syracuse NY 13057 Enalytic.com Ph:315-437-0255 Web Site:

| Client:     | DEF Products, LLC            |
|-------------|------------------------------|
| Contact     | Sharon Stegmuller            |
| Address     | 422 East Barioni Blvd        |
|             | Imperial, CA 02251           |
| Email       | <u>defproducts@gmail.com</u> |
| Phone       | 760 355 7997                 |
| Report Date | 9/7/2023                     |



| Enalytic ID   | E2309005-001                |
|---------------|-----------------------------|
| TANK          | 3 & 4                       |
| Batch Number  | 309012023M                  |
| Train         | GBRX716587                  |
| Sample ID     | DEF 32.7%                   |
| Date Sampled  | 9/1/2023                    |
| Date Received | 9/5/2023                    |
| ISO 17025     | Certificate Number: AT-2956 |

# Certificate of Analysis

#### Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.7% DEF TANK # 3 & 4 Batch # 309012023M Train # GBRX716587

| Test Parameter/Method                    | Units                        | Test                      | Acceptable         | Results <sup>4</sup> | Chemist     | Analysis | Pass/ |
|--|------------------------------|---------------------------|--------------------|----------------------|-------------|----------|-------|
|  |                              | Method (ISO) <sup>1</sup> | Limit <sup>2</sup> |                      |             | Date     | Fail  |
| Urea Content                             | wt%                          | 22241-2 Annex C           | 31.8-33.2          | 32.3                 | SPT         | 9/7/2023 | Pass  |
| Refractive Index @ 20degC                | N <sub>D</sub> <sup>20</sup> | 22241-2 Annex C           | 1.3814-1.3843      | 1.3826               | MFB         | 9/5/2023 | Pass  |
| Alkalinity as NH <sub>3</sub>            | %                            | 22241-2 Annex D           | <0.2               | 0.13                 | MDC         | 9/6/2023 | Pass  |
| Biuret                                   | %                            | 22241-2 Annex E           | <0.3               | 0.15                 | MDC         | 9/5/2023 | Pass  |
| Aldehyde                                 | mg/kg                        | 22241-2 Annex F           | <5.0               | <1.0                 | MFB         | 9/6/2023 | Pass  |
| Insolubles                               | mg/kg                        | 22241-2 Annex G           | <20                | <2.5                 | MFB         | 9/5/2023 | Pass  |
| Aluminum by ICP-OES                      | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.05                | NAB         | 9/5/2023 | Pass  |
| Calcium by ICP-OES                       | mg/kg                        | 22241-2 Annex I           | <0.5               | 0.14                 | NAB         | 9/5/2023 | Pass  |
| Chromium by ICP-OES                      | mg/kg                        | 22241-2 Annex I           | <0.2               | <0.02                | NAB         | 9/5/2023 | Pass  |
| Copper by ICP-OES                        | mg/kg                        | 22241-2 Annex I           | <0.2               | <0.02                | NAB         | 9/5/2023 | Pass  |
| Iron by ICP-OES                          | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.05                | NAB         | 9/5/2023 | Pass  |
| Magnesium by ICP-OES                     | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.05                | NAB         | 9/5/2023 | Pass  |
| Nickel by ICP-OES                        | mg/kg                        | 22241-2 Annex I           | <0.2               | <0.02                | NAB         | 9/5/2023 | Pass  |
| Phosphate by ICP-OES                     | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.25                | NAB         | 9/5/2023 | Pass  |
| Potassium by ICP-OES                     | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.05                | NAB         | 9/5/2023 | Pass  |
| Sodium by ICP-OES                        | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.05                | NAB         | 9/5/2023 | Pass  |
| Zinc by ICP-OES                          | mg/kg                        | 22241-2 Annex I           | <0.2               | <0.02                | NAB         | 9/5/2023 | Pass  |
|  | Mi                           | scellaneous Seco          | ondary Unregula    | ated Quality         | y Standards |          |       |
| Identify by FTIR (attached) <sup>3</sup> | Spectra                      | 22241-2 Annex J           | Control Match      | Match                | MDC         | 9/5/2023 |       |

| Identify by FTIR (attached) <sup>3</sup> | Spectra           | 22241-2 Annex J | Control Match  | Match  | MDC | 9/5/2023 |  |
|--|-------------------|-----------------|----------------|--------|-----|----------|--|
| Density @ 20degC                         | g/cm <sup>3</sup> | 3675            | Not Applicable | 1.0909 | MFB | 9/5/2023 |  |

Note 1: All ISO standards are up to date with the latest revisions.

Note 2: The acceptable values are based on the standard 32.5% unless otherwise stated, and are less than or equal to the values shown. Note 3: ISO 17025 accreditation not applied for.

Note 4: We currently are waiting for our refractometer to be recalibrated at Misco. Until such time that we receive the meter back, we will be using a loaner which does not fall under our certification criteria.

All procedures were conducted in accordance with Enalytic's Quality Control manual in its most current form and/or related procedures. The information contained in the analytical report represents only the materials tested and may not be reproduced except in full and without the written approval of the Technical Director of Enalytic Labs. Enalytic maintains a quality system in compliance with ISO17025:2017 with accreditations through ANAB certificate #AT-2956. All testing will be conducted in good faith by trained personnel equipped with the proper equipment and methodologies. Our liability will be limited to the cost of the services, including third-party charges. All test samples will be retained for a minimum of 3 months and/or extension by request. Fraudulent, false or statements of fiction are punishable by Federal Law. All samples received and reported above have been received in proper condition or as noted on the report.

Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

9/7/2023 Date:



6034 Corporate Dr. East Syracuse NY 13057 Enalytic.com Ph:315-437-0255 Web Site:

| Client:     | DEF Products, LLC     |
|-------------|-----------------------|
| Contact     | Sharon Stegmuller     |
| Address     | 422 East Barioni Blvd |
|             | Imperial, CA 02251    |
| Email       | defproducts@gmail.com |
| Phone       | 760 355 7997          |
| Report Date | 9/8/2023              |



| Enalytic ID   | E2309009-001                |
|---------------|-----------------------------|
| TANK          | 17 & 12                     |
| Batch Number  | 309052023M                  |
| Train         | TILX220104                  |
| Sample ID     | DEF 32.3%                   |
| Date Sampled  | 9/5/2023                    |
| Date Received | 9/6/2023                    |
| ISO 17025     | Certificate Number: AT-2956 |

## Certificate of Analysis

### Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.3% DEF TANK # 17 & 12 Batch # 309052023M Train # TILX220104

| Test Parameter/Method                    | Units                        | Test<br>Method (ISO) <sup>1</sup> | Acceptable<br>Limit <sup>2</sup> | Results <sup>4</sup> | Chemist     | Analysis<br>Date | Pass/<br>Fail |
|--|------------------------------|-----------------------------------|----------------------------------|----------------------|-------------|------------------|---------------|
| Urea Content                             | wt%                          | 22241-2 Annex C                   | 31.8-33.2                        | 32.2                 | SPT         | 9/8/2023         | Pass          |
| Refractive Index @ 20degC                | N <sub>D</sub> <sup>20</sup> | 22241-2 Annex C                   | 1.3814-1.3843                    | 1.3824               | MLB         | 9/7/2023         | Pass          |
| Alkalinity as NH <sub>3</sub>            | %                            | 22241-2 Annex D                   | <0.2                             | 0.17                 | MDC         | 9/6/2023         | Pass          |
| Biuret                                   | %                            | 22241-2 Annex E                   | <0.3                             | 0.15                 | MDC         | 9/7/2023         | Pass          |
| Aldehyde                                 | mg/kg                        | 22241-2 Annex F                   | <5.0                             | <1.0                 | MFB         | 9/6/2023         | Pass          |
| Insolubles                               | mg/kg                        | 22241-2 Annex G                   | <20                              | <2.5                 | MFB         | 9/6/2023         | Pass          |
| Aluminum by ICP-OES                      | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB         | 9/7/2023         | Pass          |
| Calcium by ICP-OES                       | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB         | 9/7/2023         | Pass          |
| Chromium by ICP-OES                      | mg/kg                        | 22241-2 Annex I                   | <0.2                             | 0.083                | NAB         | 9/7/2023         | Pass          |
| Copper by ICP-OES                        | mg/kg                        | 22241-2 Annex I                   | <0.2                             | 0.12                 | NAB         | 9/7/2023         | Pass          |
| Iron by ICP-OES                          | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB         | 9/7/2023         | Pass          |
| Magnesium by ICP-OES                     | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB         | 9/7/2023         | Pass          |
| Nickel by ICP-OES                        | mg/kg                        | 22241-2 Annex I                   | <0.2                             | 0.031                | NAB         | 9/7/2023         | Pass          |
| Phosphate by ICP-OES                     | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.25                | NAB         | 9/7/2023         | Pass          |
| Potassium by ICP-OES                     | mg/kg                        | 22241-2 Annex I                   | <0.5                             | 0.14                 | NAB         | 9/7/2023         | Pass          |
| Sodium by ICP-OES                        | mg/kg                        | 22241-2 Annex I                   | <0.5                             | 0.057                | NAB         | 9/7/2023         | Pass          |
| Zinc by ICP-OES                          | mg/kg                        | 22241-2 Annex I                   | <0.2                             | <0.02                | NAB         | 9/7/2023         | Pass          |
|  | Mi                           | scellaneous Seco                  | ondary Unregula                  | ated Qualit          | y Standards |                  |               |
| Identify by FTIR (attached) <sup>3</sup> | Spectra                      | 22241-2 Annex J                   | Control Match                    | Match                | MDC         | 9/8/2023         |               |

| Identify by FTIR (attached) <sup>3</sup> | Spectra           | 22241-2 Annex J | Control Match  | Match  | MDC | 9/8/2023 |  |
|--|-------------------|-----------------|----------------|--------|-----|----------|--|
| Density @ 20degC                         | g/cm <sup>3</sup> | 3675            | Not Applicable | 1.0904 | MFB | 9/6/2023 |  |

Note 1: All ISO standards are up to date with the latest revisions.

Note 2: The acceptable values are based on the standard 32.5% unless otherwise stated, and are less than or equal to the values shown. Note 3: ISO 17025 accreditation not applied for.

Note 4: We currently are waiting for our refractometer to be recalibrated at Misco. Until such time that we receive the meter back, we will be using a loaner which does not fall under our certification criteria.

All procedures were conducted in accordance with Enalytic's Quality Control manual in its most current form and/or related procedures. The information contained in the analytical report represents only the materials tested and may not be reproduced except in full and without the written approval of the Technical Director of Enalytic Labs. Enalytic maintains a quality system in compliance with ISO17025:2017 with accreditations through ANAB certificate #AT-2956. All testing will be conducted in good faith by trained personnel equipped with the proper equipment and methodologies. Our liability will be limited to the cost of the services, including third-party charges. All test samples will be retained for a minimum of 3 months and/or extension by request. Fraudulent, false or statements of fiction are punishable by Federal Law. All samples received and reported above have been received in proper condition or as noted on the report.

Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

9/8/2023 Date:



6034 Corporate Dr. East Syracuse NY 13057 Web Site: Enalytic.com Ph:315-437-0255

# Client:DEF Products, LLCContactSharon StegmullerAddress422 East Barioni BlvdImperial, CA 02251Emaildefproducts@gmail.comPhone760 355 7997Report Date9/15/2023



| Enalytic ID   | E2309017-001                |
|---------------|-----------------------------|
| Batch Number  | 309092023P                  |
| Train         | GATX224043                  |
| Sample ID     | DEF 32.7%                   |
| Date Sampled  | 9/9/2023                    |
| Date Received | 9/12/2023                   |
| ISO 17025     | Certificate Number: AT-2956 |

# Certificate of Analysis

### Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.7% DEF Batch # 309092023P Train # GATX224043

| Test Parameter/Method                    | Units                        | Test                      | Acceptable         | <b>Results</b> <sup>4</sup> | Chemist     | Analysis  | Pass/ |
|--|------------------------------|---------------------------|--------------------|-----------------------------|-------------|-----------|-------|
|  |                              | Method (ISO) <sup>1</sup> | Limit <sup>2</sup> |                             |             | Date      | Fail  |
| Urea Content                             | wt%                          | 22241-2 Annex C           | 31.8-33.2          | 31.9                        | SPT         | 9/14/2023 | Pass  |
| Refractive Index @ 20degC                | N <sub>D</sub> <sup>20</sup> | 22241-2 Annex C           | 1.3814-1.3843      | 1.3820                      | MFB         | 9/14/2023 | Pass  |
| Alkalinity as NH <sub>3</sub>            | %                            | 22241-2 Annex D           | <0.2               | 0.08                        | MDC         | 9/12/2023 | Pass  |
| Biuret                                   | %                            | 22241-2 Annex E           | <0.3               | 0.16                        | MDC         | 9/13/2023 | Pass  |
| Aldehyde                                 | mg/kg                        | 22241-2 Annex F           | <5.0               | <1.0                        | MFB         | 9/12/2023 | Pass  |
| Insolubles                               | mg/kg                        | 22241-2 Annex G           | <20                | <2.5                        | MFB         | 9/13/2023 | Pass  |
| Aluminum by ICP-OES                      | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.05                       | NAB         | 9/12/2023 | Pass  |
| Calcium by ICP-OES                       | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.05                       | NAB         | 9/12/2023 | Pass  |
| Chromium by ICP-OES                      | mg/kg                        | 22241-2 Annex I           | <0.2               | <0.02                       | NAB         | 9/12/2023 | Pass  |
| Copper by ICP-OES                        | mg/kg                        | 22241-2 Annex I           | <0.2               | 0.031                       | NAB         | 9/12/2023 | Pass  |
| Iron by ICP-OES                          | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.05                       | NAB         | 9/12/2023 | Pass  |
| Magnesium by ICP-OES                     | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.05                       | NAB         | 9/12/2023 | Pass  |
| Nickel by ICP-OES                        | mg/kg                        | 22241-2 Annex I           | <0.2               | <0.02                       | NAB         | 9/12/2023 | Pass  |
| Phosphate by ICP-OES                     | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.25                       | NAB         | 9/12/2023 | Pass  |
| Potassium by ICP-OES                     | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.05                       | NAB         | 9/12/2023 | Pass  |
| Sodium by ICP-OES                        | mg/kg                        | 22241-2 Annex I           | <0.5               | <0.05                       | NAB         | 9/12/2023 | Pass  |
| Zinc by ICP-OES                          | mg/kg                        | 22241-2 Annex I           | <0.2               | 0.046                       | NAB         | 9/12/2023 | Pass  |
|  | Mi                           | scellaneous Seco          | ondary Unregula    | ated Qualit                 | y Standards |           |       |
| Identify by FTIR (attached) <sup>3</sup> | Spectra                      | 22241-2 Annex J           | Control Match      | Match                       | MFB         | 9/14/2023 |       |

| Identify by FTIR (attached) <sup>o</sup> | Spectra | 22241-2 Annex J | Control Match  | Match  | MFB | 9/14/2023 |  |
|--|---------|-----------------|----------------|--------|-----|-----------|--|
| Density @ 20degC                         | g/cm³   | 3675            | Not Applicable | 1.0893 | MFB | 9/14/2023 |  |

Note 1: All ISO standards are up to date with the latest revisions.

Note 2: The acceptable values are based on the standard 32.5% unless otherwise stated, and are less than or equal to the values shown.

Note 3: ISO 17025 accreditation not applied for.

Note 4: We currently are waiting for our refractometer to be recalibrated at Misco. Until such time that we receive the meter back, we will be using a loaner which does not fall under our certification criteria.

All procedures were conducted in accordance with Enalytic's Quality Control manual in its most current form and/or related procedures. The information contained in the analytical report represents only the materials tested and may not be reproduced except in full and without the written approval of the Technical Director of Enalytic Labs. Enalytic maintains a quality system in compliance with ISO17025:2017 with accreditations through ANAB certificate #AT-2956. All testing will be conducted in good faith by trained personnel equipped with the proper equipment and methodologies. Our liability will be limited to the cost of the services, including third-party charges. All test samples will be retained for a minimum of 3 months and/or extensi on by request. Fraudulent, false or statements of fiction are punishable by Federal Law. All samples received and reported above have been received in proper condition or as noted on the report.

cala

Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 9/15/2023



6034 Corporate Dr. East Syracuse NY 13057 Web Site: Enalytic.com Ph:315-437-0255

| Client:     | DEF Products, LLC     |
|-------------|-----------------------|
| Contact     | Sharon Stegmuller     |
| Address     | 422 East Barioni Blvd |
|             | Imperial, CA 02251    |
| Email       | defproducts@gmail.com |
| Phone       | 760 355 7997          |
| Report Date | 9/20/2023             |

Purity: Excellent



| Enalytic ID   | E2309037-001                |
|---------------|-----------------------------|
| TANK          | 3 & 4                       |
| Batch Number  | 309152023M                  |
| Train         | UTLX647661                  |
| Sample ID     | DEF 32.6%                   |
| Date Sampled  | 9/15/2023                   |
| Date Received | 9/18/2023                   |
| ISO 17025     | Certificate Number: AT-2956 |

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.6% DEF TANK 3 & 4 Batch # 309152023M Train # UTLX647661

| Test Parameter/Method                                 | Units                        | Test<br>Method (ISO) <sup>1</sup> | Acceptable<br>Limit <sup>2</sup> | Results <sup>4</sup> | Chemist | Analysis<br>Date | Pass/<br>Fail |
|---|------------------------------|-----------------------------------|----------------------------------|----------------------|---------|------------------|---------------|
| Urea Content  | wt%                          | 22241-2 Annex C                   | 31.8-33.2                        | 32.2                 | SPT     | 9/20/2023        | Pass          |
| Refractive Index @ 20degC                             | N <sub>D</sub> <sup>20</sup> | 22241-2 Annex C                   | 1.3814-1.3843                    | 1.3824               | MFB     | 9/18/2023        | Pass          |
| Alkalinity as NH <sub>3</sub>                         | %                            | 22241-2 Annex D                   | <0.2                             | 0.06                 | MDC     | 9/19/2023        | Pass          |
| Biuret  | %                            | 22241-2 Annex E                   | <0.3                             | 0.17                 | MDC     | 9/18/2023        | Pass          |
| Aldehyde  | mg/kg                        | 22241-2 Annex F                   | <5.0                             | <1.0                 | MFB     | 9/19/2023        | Pass          |
| Insolubles  | mg/kg                        | 22241-2 Annex G                   | <20                              | <2.5                 | MFB     | 9/19/2023        | Pass          |
| Aluminum by ICP-OES                                   | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB     | 9/19/2023        | Pass          |
| Calcium by ICP-OES                                    | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB     | 9/19/2023        | Pass          |
| Chromium by ICP-OES                                   | mg/kg                        | 22241-2 Annex I                   | <0.2                             | <0.02                | NAB     | 9/19/2023        | Pass          |
| Copper by ICP-OES                                     | mg/kg                        | 22241-2 Annex I                   | <0.2                             | <0.02                | NAB     | 9/19/2023        | Pass          |
| Iron by ICP-OES                                       | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB     | 9/19/2023        | Pass          |
| Magnesium by ICP-OES                                  | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB     | 9/19/2023        | Pass          |
| Nickel by ICP-OES                                     | mg/kg                        | 22241-2 Annex I                   | <0.2                             | <0.02                | NAB     | 9/19/2023        | Pass          |
| Phosphate by ICP-OES                                  | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.25                | NAB     | 9/19/2023        | Pass          |
| Potassium by ICP-OES                                  | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB     | 9/19/2023        | Pass          |
| Sodium by ICP-OES                                     | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB     | 9/19/2023        | Pass          |
| Zinc by ICP-OES                                       | mg/kg                        | 22241-2 Annex I                   | <0.2                             | <0.02                | NAB     | 9/19/2023        | Pass          |
| Miscellaneous Secondary Unregulated Quality Standards |                              |                                   |                                  |                      |         |                  |               |
| Identify by FTIR (attached) <sup>3</sup>              | Spectra                      | 22241-2 Annex J                   | Control Match                    | Match                | MDC     | 9/19/2023        |               |
| Density @ 20degC                                      | g/cm <sup>3</sup>            | 3675                              | Not Applicable                   | 1.0893               | MFB     | 9/18/2023        |               |

Note 1: All ISO standards are up to date with the latest revisions.

Note 2: The acceptable values are based on the standard 32.5% unless otherwise stated, and are less than or equal to the values shown.

Note 3: ISO 17025 accreditation not applied for.

Note 4: We currently are waiting for our refractometer to be recalibrated at Misco. Until such time that we receive the meter back, we will be using a loaner which does not fall under our certification criteria.

All procedures were conducted in accordance with Enalytic's Quality Control manual in its most current form and/or related procedures. The information contained in the analytical report represents only the materials tested and may not be reproduced except in full and without the written approval of the Technical Director of Enalytic Labs. Enalytic maintains a quality system in compliance with ISO17025:2017 with accreditations through ANAB certificate #AT-2956. All testing will be conducted in good faith by trained personnel equipped with the proper equipment and methodologies. Our liability will be limited to the cost of the services, including third-party charges. All test samples will be retained for a minimum of 3 months and/or extensi on by request. Fraudulent, false or statements of fiction are punishable by Federal Law. All samples received and reported above have been received in proper condition or as noted on the report.

ala

Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 9/20/2023



6034 Corporate Dr. East Syracuse NY 13057 Web Site: Enalytic.com Ph:315-437-0255

| Client:     | DEF Products, LLC            |
|-------------|------------------------------|
| Contact     | Sharon Stegmuller            |
| Address     | 422 East Barioni Blvd        |
|             | Imperial, CA 02251           |
| Email       | <u>defproducts@gmail.com</u> |
| Phone       | 760 355 7997                 |
| Report Date | 10/2/2023                    |



| Enalytic ID   | E2309056-001                |
|---------------|-----------------------------|
| TANK          | 1&2                         |
| Batch Number  | 309272023L                  |
| Train         | GBRX716310                  |
| Sample ID     | DEF 32.9%                   |
| Date Sampled  | 9/27/2023                   |
| Date Received | 9/28/2023                   |
| ISO 17025     | Certificate Number: AT-2956 |

## Certificate of Analysis

| Diesel Exhaust Fluid Analytical ISO-22241 |           |                       |                    |                    |  |  |  |
|---|-----------|-----------------------|--------------------|--------------------|--|--|--|
| Client ID:                                | 32.9% DEF | <b>TANK 1 &amp; 2</b> | Batch # 309272023L | Train # GBRX716310 |  |  |  |

| Test Parameter/Method                                 | Units                        | Test<br>Method (ISO) <sup>1</sup> | Acceptable<br>Limit <sup>2</sup> | Results <sup>4</sup> | Chemist | Analysis<br>Date | Pass/<br>Fail |
|---|------------------------------|-----------------------------------|----------------------------------|----------------------|---------|------------------|---------------|
| Urea Content  | wt%                          | 22241-2 Annex C                   | 31.8-33.2                        | 31.9                 | SPT     | 10/2/2023        | Pass          |
| Refractive Index @ 20degC                             | N <sub>D</sub> <sup>20</sup> | 22241-2 Annex C                   | 1.3814-1.3843                    | 1.3820               | MDC     | 9/29/2023        | Pass          |
| Alkalinity as NH <sub>3</sub>                         | %                            | 22241-2 Annex D                   | <0.2                             | 0.07                 | MFB     | 9/29/2023        | Pass          |
| Biuret  | %                            | 22241-2 Annex E                   | <0.3                             | 0.17                 | MDC     | 9/28/2023        | Pass          |
| Aldehyde  | mg/kg                        | 22241-2 Annex F                   | <5.0                             | <1.0                 | MFB     | 9/28/2023        | Pass          |
| Insolubles  | mg/kg                        | 22241-2 Annex G                   | <20                              | <2.5                 | MFB     | 9/28/2023        | Pass          |
| Aluminum by ICP-OES                                   | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB     | 9/29/2023        | Pass          |
| Calcium by ICP-OES                                    | mg/kg                        | 22241-2 Annex I                   | <0.5                             | 0.13                 | NAB     | 9/29/2023        | Pass          |
| Chromium by ICP-OES                                   | mg/kg                        | 22241-2 Annex I                   | <0.2                             | <0.02                | NAB     | 9/29/2023        | Pass          |
| Copper by ICP-OES                                     | mg/kg                        | 22241-2 Annex I                   | <0.2                             | <0.02                | NAB     | 9/29/2023        | Pass          |
| Iron by ICP-OES                                       | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB     | 9/29/2023        | Pass          |
| Magnesium by ICP-OES                                  | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB     | 9/29/2023        | Pass          |
| Nickel by ICP-OES                                     | mg/kg                        | 22241-2 Annex I                   | <0.2                             | <0.02                | NAB     | 9/29/2023        | Pass          |
| Phosphate by ICP-OES                                  | mg/kg                        | 22241-2 Annex I                   | <0.5                             | 0.31                 | NAB     | 9/29/2023        | Pass          |
| Potassium by ICP-OES                                  | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB     | 9/29/2023        | Pass          |
| Sodium by ICP-OES                                     | mg/kg                        | 22241-2 Annex I                   | <0.5                             | <0.05                | NAB     | 9/29/2023        | Pass          |
| Zinc by ICP-OES                                       | mg/kg                        | 22241-2 Annex I                   | <0.2                             | <0.02                | NAB     | 9/29/2023        | Pass          |
| Miscellaneous Secondary Unregulated Quality Standards |                              |                                   |                                  |                      |         |                  |               |
| Identify by FTIR (attached) <sup>3</sup>              | Spectra                      | 22241-2 Annex J                   | Control Match                    | Match                | MFB     | 10/2/2023        |               |
| Density @ 20degC                                      | g/cm <sup>3</sup>            | 3675                              | Not Applicable                   | 1.0883               | MDC     | 9/29/2023        |               |

Note 1: All ISO standards are up to date with the latest revisions.

Note 2: The acceptable values are based on the standard 32.5% unless otherwise stated, and are less than or equal to the values shown.

Note 3: ISO 17025 accreditation not applied for.

Note 4: We currently are waiting for our refractometer to be recalibrated at Misco. Until such time that we receive the meter back, we will be using a loaner which does not fall under our certification criteria.

All procedures were conducted in accordance with Enalytic's Quality Control manual in its most current form and/or related procedures. The information contained in the analytical report represents only the materials tested and may not be reproduced except in full and without the written approval of the Technical Director of Enalytic Labs. Enalytic maintains a quality system in compliance with ISO17025:2017 with accreditations through ANAB certificate #AT-2956. All testing will be conducted in good faith by trained personnel equipped with the proper equipment and methodologies. Our liability will be limited to the cost of the services, including third-party charges. All test samples will be retained for a minimum of 3 months and/or extensi on by request. Fraudulent, false or statements of fiction are punishable by Federal Law. All samples received and reported above have been received in proper condition or as noted on the report.

ala

**Certification Approval** 

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 10/2/2023