

Report Date

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

11/13/2023



Enalytic ID E2311024-001 TANK 4 & 5 Batch Number 311082023L Train UTLX647710 Sample ID DEF 32.6% Date Sampled 11/8/2023 Date Received 11/9/2023 ISO 17025 Certificate Number: AT-2956

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.6% DEF TANK 4 & 5 Batch # 311082023L Train # UTLX647710

| 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          | 32.0                 | SPT     | 11/13/2023 | Pass  |
| Refractive Index @ 20degC     | $N_D^{20}$ | 22241-2 Annex C           | 1.3814-1.3843      | 1.3822               | MFB     | 11/13/2023 | Pass  |
| Alkalinity as NH <sub>3</sub> | %          | 22241-2 Annex D           | <0.2               | 0.10                 | MDC     | 11/13/2023 | Pass  |
| Biuret                        | %          | 22241-2 Annex E           | <0.3               | 0.16                 | MDC     | 11/10/2023 | Pass  |
| Aldehyde                      | mg/kg      | 22241-2 Annex F           | <5.0               | <1.0                 | MFB     | 11/10/2023 | Pass  |
| Insolubles                    | mg/kg      | 22241-2 Annex G           | <20                | <2.5                 | MFB     | 11/9/2023  | Pass  |
| Aluminum by ICP-OES           | mg/kg      | 22241-2 Annex I           | <0.5               | <0.05                | SPT     | 11/9/2023  | Pass  |
| Calcium by ICP-OES            | mg/kg      | 22241-2 Annex I           | <0.5               | <0.05                | SPT     | 11/9/2023  | Pass  |
| Chromium by ICP-OES           | mg/kg      | 22241-2 Annex I           | <0.2               | 0.084                | SPT     | 11/9/2023  | Pass  |
| Copper by ICP-OES             | mg/kg      | 22241-2 Annex I           | <0.2               | <0.02                | SPT     | 11/9/2023  | Pass  |
| Iron by ICP-OES               | mg/kg      | 22241-2 Annex I           | <0.5               | <0.05                | SPT     | 11/9/2023  | Pass  |
| Magnesium by ICP-OES          | mg/kg      | 22241-2 Annex I           | <0.5               | <0.05                | SPT     | 11/9/2023  | Pass  |
| Nickel by ICP-OES             | mg/kg      | 22241-2 Annex I           | <0.2               | <0.02                | SPT     | 11/9/2023  | Pass  |
| Phosphate by ICP-OES          | mg/kg      | 22241-2 Annex I           | <0.5               | 0.42                 | SPT     | 11/9/2023  | Pass  |
| Potassium by ICP-OES          | mg/kg      | 22241-2 Annex I           | <0.5               | <0.05                | SPT     | 11/9/2023  | Pass  |
| Sodium by ICP-OES             | mg/kg      | 22241-2 Annex I           | <0.5               | <0.05                | SPT     | 11/9/2023  | Pass  |
| Zinc by ICP-OES               | mg/kg      | 22241-2 Annex I           | <0.2               | <0.02                | SPT     | 11/9/2023  | Pass  |

| Miscellaneous Secondary Unregulated Quality Standards |                   |                 |                |        |     |            |  |  |
|---|-------------------|-----------------|----------------|--------|-----|------------|--|--|
| Identify by FTIR (attached) <sup>3</sup>              | Spectra           | 22241-2 Annex J | Control Match  | Match  | MDC | 11/10/2023 |  |  |
| Density @ 20degC                                      | g/cm <sup>3</sup> | 3675            | Not Applicable | 1.0898 | MFB | 11/10/2023 |  |  |

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 will be rewriting the QC specifications for our Refractometer shortly to conform with our updated Quality Systems.

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.

Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 11/13/2023



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

\*\* Amended \*\*



Enalytic ID E2311042-001 FROM TANK # 13 309132023M Batch Number 311152023M TO TANK# 5 & 4 Sample ID DEF 32.5% Date Sampled 11/15/2023 Date Received 11/16/2023 ISO 17025 Certificate Number: AT-2956

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 11/22/2023

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF FROM TANK # 13 309132023M Batch # 311152023M TO TANK # 5 & 4

| 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          | 32.7                 | SPT         | 11/22/2023 | Pass  |
| Refractive Index @ 20degC                | $N_D^{20}$        | 22241-2 Annex C           | 1.3814-1.3843      | 1.3832               | MDC         | 11/20/2023 | Pass  |
| Alkalinity as NH <sub>3</sub>            | %                 | 22241-2 Annex D           | <0.2               | 0.08                 | MFB         | 11/17/2023 | Pass  |
| Biuret                                   | %                 | 22241-2 Annex E           | <0.3               | 0.16                 | MDC         | 11/17/2023 | Pass  |
| Aldehyde                                 | mg/kg             | 22241-2 Annex F           | <5.0               | <1.0                 | MFB         | 11/20/2023 | Pass  |
| Insolubles                               | mg/kg             | 22241-2 Annex G           | <20                | <2.5                 | MFB         | 11/16/2023 | Pass  |
| Aluminum by ICP-OES                      | mg/kg             | 22241-2 Annex I           | <0.5               | <0.10                | SPT         | 11/27/2023 | Pass  |
| Calcium by ICP-OES                       | mg/kg             | 22241-2 Annex I           | <0.5               | <0.10                | SPT         | 11/27/2023 | Pass  |
| Chromium by ICP-OES                      | mg/kg             | 22241-2 Annex I           | <0.2               | < 0.04               | SPT         | 11/27/2023 | Pass  |
| Copper by ICP-OES                        | mg/kg             | 22241-2 Annex I           | <0.2               | <0.04                | SPT         | 11/27/2023 | Pass  |
| Iron by ICP-OES                          | mg/kg             | 22241-2 Annex I           | <0.5               | <0.10                | SPT         | 11/27/2023 | Pass  |
| Magnesium by ICP-OES                     | mg/kg             | 22241-2 Annex I           | <0.5               | <0.10                | SPT         | 11/27/2023 | Pass  |
| Nickel by ICP-OES                        | mg/kg             | 22241-2 Annex I           | <0.2               | < 0.04               | SPT         | 11/27/2023 | Pass  |
| Phosphate by ICP-OES                     | mg/kg             | 22241-2 Annex I           | <0.5               | <0.31                | SPT         | 11/27/2023 | Pass  |
| Potassium by ICP-OES                     | mg/kg             | 22241-2 Annex I           | <0.5               | 0.13                 | SPT         | 11/27/2023 | Pass  |
| Sodium by ICP-OES                        | mg/kg             | 22241-2 Annex I           | <0.5               | <0.10                | SPT         | 11/27/2023 | Pass  |
| Zinc by ICP-OES                          | mg/kg             | 22241-2 Annex I           | <0.2               | <0.04                | SPT         | 11/27/2023 | Pass  |
|  | Mi                | scellaneous Sec           | ondary Unregula    | ated Qualit          | y Standards |            |       |
| Identify by FTIR (attached) <sup>3</sup> | Spectra           | 22241-2 Annex J           | Control Match      | Match                | MDC         | 11/20/2023 |       |
| Density @ 20deaC                         | g/cm <sup>3</sup> | 3675                      | Not Applicable     | 1.0908               | MDC         | 11/20/2023 |       |

|  |                   |                 | , ,            |        | ,   |            |  |
|--|-------------------|-----------------|----------------|--------|-----|------------|--|
| Identify by FTIR (attached) <sup>3</sup> | Spectra           | 22241-2 Annex J | Control Match  | Match  | MDC | 11/20/2023 |  |
| Density @ 20degC                         | g/cm <sup>3</sup> | 3675            | Not Applicable | 1.0908 | MDC | 11/20/2023 |  |

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: Report was Amended to correct the Metals Results and Analyses Dates.

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Enalytic DUNS Reg. Number: 02-636-0096

Page 1 of 1

11/28/2023

Date:



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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 11/30/2023



 Enalytic ID
 E2311064-001

 TANK #
 1 & 2

 Batch Number
 311242023L

 Train
 TILX264903

 Date Sampled
 11/24/2023

 Date Received
 11/28/2023

 ISO 17025
 Certificate Number: AT-2956

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.7% DEF TANK # 1 & 2 Batch # 311242023L Train # TILX264903

| Test Parameter/Method                                 | Units             | Test                      | Acceptable         | Results | 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          | 32.5    | SPT     | 11/30/2023 | Pass  |  |
| Refractive Index @ 20degC                             | $N_D^{20}$        | 22241-2 Annex C           | 1.3814-1.3843      | 1.3830  | CAR     | 11/29/2023 | Pass  |  |
| Alkalinity as NH <sub>3</sub>                         | %                 | 22241-2 Annex D           | <0.2               | 0.07    | MDC     | 11/29/2023 | Pass  |  |
| Biuret  | %                 | 22241-2 Annex E           | <0.3               | 0.16    | MDC     | 11/30/2023 | Pass  |  |
| Aldehyde  | mg/kg             | 22241-2 Annex F           | <5.0               | <1.0    | MDC     | 11/30/2023 | Pass  |  |
| Insolubles  | mg/kg             | 22241-2 Annex G           | <20                | <2.5    | SPT     | 11/29/2023 | Pass  |  |
| Aluminum by ICP-OES                                   | mg/kg             | 22241-2 Annex I           | <0.5               | <0.10   | SPT     | 11/28/2023 | Pass  |  |
| Calcium by ICP-OES                                    | mg/kg             | 22241-2 Annex I           | <0.5               | <0.10   | SPT     | 11/28/2023 | Pass  |  |
| Chromium by ICP-OES                                   | mg/kg             | 22241-2 Annex I           | <0.2               | 0.046   | SPT     | 11/28/2023 | Pass  |  |
| Copper by ICP-OES                                     | mg/kg             | 22241-2 Annex I           | <0.2               | <0.04   | SPT     | 11/28/2023 | Pass  |  |
| Iron by ICP-OES                                       | mg/kg             | 22241-2 Annex I           | <0.5               | <0.10   | SPT     | 11/28/2023 | Pass  |  |
| Magnesium by ICP-OES                                  | mg/kg             | 22241-2 Annex I           | <0.5               | <0.10   | SPT     | 11/28/2023 | Pass  |  |
| Nickel by ICP-OES                                     | mg/kg             | 22241-2 Annex I           | <0.2               | <0.04   | SPT     | 11/28/2023 | Pass  |  |
| Phosphate by ICP-OES                                  | mg/kg             | 22241-2 Annex I           | <0.5               | <0.31   | SPT     | 11/28/2023 | Pass  |  |
| Potassium by ICP-OES                                  | mg/kg             | 22241-2 Annex I           | <0.5               | 0.24    | SPT     | 11/28/2023 | Pass  |  |
| Sodium by ICP-OES                                     | mg/kg             | 22241-2 Annex I           | <0.5               | <0.10   | SPT     | 11/28/2023 | Pass  |  |
| Zinc by ICP-OES                                       | mg/kg             | 22241-2 Annex I           | <0.2               | <0.04   | SPT     | 11/28/2023 | Pass  |  |
| Miscellaneous Secondary Unregulated Quality Standards |                   |                           |                    |         |         |            |       |  |
| Identify by FTIR (attached) <sup>3</sup>              | Spectra           | 22241-2 Annex J           | Control Match      | Match   | CAR     | 11/30/2023 |       |  |
| Density @ 20degC                                      | g/cm <sup>3</sup> | 3675                      | Not Applicable     | 1.0913  | MDC     | 11/29/2023 |       |  |

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

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Note 3: ISO 17025 accreditation not applied for.

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11/30/2023