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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 | 11/15/2023 |

| | |
|---------------|-----------------------------|
| Enalytic ID | E2311031-001 |
| TANK | 11 |
| Batch Number | 310022023M |
| TANK # | 2 |
| Sample ID | DEF 32.5% |
| Date Sampled | 11/9/2023 |
| Date Received | 11/13/2023 |
| ISO 17025 | Certificate Number: AT-2956 |

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF TANK 11 Batch # 310022023M TANK # 2

| Test Parameter/Method | Units | Test Method (ISO) ¹ | Acceptable Limit ² | Results ⁴ | Chemist | Analysis Date | Pass/Fail |
|-------------------------------|------------------------------|--------------------------------|-------------------------------|----------------------|---------|---------------|-----------|
| Urea Content | wt% | 22241-2 Annex C | 31.8-33.2 | 32.6 | SPT | 11/15/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3832 | MFB | 11/13/2023 | Pass |
| Alkalinity as NH ₃ | % | 22241-2 Annex D | <0.2 | 0.06 | MDC | 11/13/2023 | Pass |
| Biuret | % | 22241-2 Annex E | <0.3 | 0.17 | MDC | 11/14/2023 | Pass |
| Aldehyde | mg/kg | 22241-2 Annex F | <5.0 | --- | MFB | 11/14/2023 | --- |
| Insolubles | mg/kg | 22241-2 Annex G | <20 | <2.5 | MFB | 11/13/2023 | Pass |
| Aluminum by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | SPT | 11/14/2023 | Pass |
| Calcium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.28 | SPT | 11/14/2023 | Pass |
| Chromium by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | 0.029 | SPT | 11/14/2023 | Pass |
| Copper by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | SPT | 11/14/2023 | Pass |
| Iron by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | SPT | 11/14/2023 | Pass |
| Magnesium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.096 | SPT | 11/14/2023 | Pass |
| Nickel by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | SPT | 11/14/2023 | Pass |
| Phosphate by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.27 | SPT | 11/14/2023 | Pass |
| Potassium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | SPT | 11/14/2023 | Pass |
| Sodium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.37 | SPT | 11/14/2023 | Pass |
| Zinc by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | SPT | 11/14/2023 | Pass |

Miscellaneous Secondary Unregulated Quality Standards

| | | | | | | | |
|--|-------------------|-----------------|----------------|--------|-----|------------|-----|
| Identify by FTIR (attached) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MDC | 11/13/2023 | --- |
| Density @ 20degC | g/cm ³ | 3675 | Not Applicable | 1.0913 | MFB | 11/15/2023 | --- |

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: Sample being reanalyzed for Aldehyde.

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 extended 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

Date: 11/15/2023

| | |
|-------------|--|
| 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 | 10/6/2023 |

| | |
|---------------|-----------------------------|
| Enalytic ID | E2310006-001 |
| TANK | 1 & 2 |
| Batch Number | 310032023P |
| Train | GATX223432 |
| Sample ID | DEF 32.6% |
| Date Sampled | 10/3/2023 |
| Date Received | 10/4/2023 |
| ISO 17025 | Certificate Number: AT-2956 |

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.6% DEF TANK 1 & 2 Batch # 310032023P Train # GATX223432

| Test Parameter/Method | Units | Test Method (ISO) ¹ | Acceptable Limit ² | Results ⁴ | Chemist | Analysis Date | Pass/Fail |
|-------------------------------|------------------------------|--------------------------------|-------------------------------|----------------------|---------|---------------|-----------|
| Urea Content | wt% | 22241-2 Annex C | 31.8-33.2 | 32.2 | SPT | 10/6/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3825 | MDC | 10/6/2023 | Pass |
| Alkalinity as NH ₃ | % | 22241-2 Annex D | <0.2 | 0.09 | MFB | 10/4/2023 | Pass |
| Biuret | % | 22241-2 Annex E | <0.3 | 0.17 | MDC | 10/4/2023 | Pass |
| Aldehyde | mg/kg | 22241-2 Annex F | <5.0 | <1.0 | MFB | 10/6/2023 | Pass |
| Insolubles | mg/kg | 22241-2 Annex G | <20 | <2.5 | MFB | 10/5/2023 | Pass |
| Aluminum by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/6/2023 | Pass |
| Calcium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.090 | NAB | 10/6/2023 | Pass |
| Chromium by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/6/2023 | Pass |
| Copper by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/6/2023 | Pass |
| Iron by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/6/2023 | Pass |
| Magnesium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/6/2023 | Pass |
| Nickel by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/6/2023 | Pass |
| Phosphate by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.25 | NAB | 10/6/2023 | Pass |
| Potassium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.11 | NAB | 10/6/2023 | Pass |
| Sodium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.14 | NAB | 10/6/2023 | Pass |
| Zinc by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/6/2023 | Pass |

Miscellaneous Secondary Unregulated Quality Standards

| | | | | | | | |
|--|-------------------|-----------------|----------------|---------------|-----|-----------|-----|
| Identify by FTIR (attached) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MDC | 10/6/2023 | --- |
| Density @ 20degC | g/cm ³ | 3675 | Not Applicable | 1.0888 | MFB | 10/6/2023 | --- |

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.

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Certification Approval _____

Laboratory Director: Anthony J Scala

Date: 10/6/2023

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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 | 10/17/2023 |

| | |
|---------------|-----------------------------|
| Enalytic ID | E2310017-001 |
| TANK | 4 & 5 |
| Batch Number | 310112023P |
| Train | UTLX680544 |
| Sample ID | DEF 32.8% |
| Date Sampled | 10/11/2023 |
| Date Received | 10/12/2023 |
| ISO 17025 | Certificate Number: AT-2956 |

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.8% DEF TANK 4 & 5 Batch # 310112023P Train # UTLX680544

| Test Parameter/Method | Units | Test Method (ISO) ¹ | Acceptable Limit ² | Results ⁴ | Chemist | Analysis Date | Pass/Fail |
|-------------------------------|------------------------------|--------------------------------|-------------------------------|----------------------|---------|---------------|-----------|
| Urea Content | wt% | 22241-2 Annex C | 31.8-33.2 | 32.3 | SPT | 10/17/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3827 | MFB | 10/17/2023 | Pass |
| Alkalinity as NH ₃ | % | 22241-2 Annex D | <0.2 | 0.07 | MDC | 10/16/2023 | Pass |
| Biuret | % | 22241-2 Annex E | <0.3 | 0.17 | MDC | 10/13/2023 | Pass |
| Aldehyde | mg/kg | 22241-2 Annex F | <5.0 | <1.0 | MFB | 10/16/2023 | Pass |
| Insolubles | mg/kg | 22241-2 Annex G | <20 | <2.5 | MFB | 10/16/2023 | Pass |
| Aluminum by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/16/2023 | Pass |
| Calcium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/16/2023 | Pass |
| Chromium by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/16/2023 | Pass |
| Copper by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/16/2023 | Pass |
| Iron by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/16/2023 | Pass |
| Magnesium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/16/2023 | Pass |
| Nickel by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/16/2023 | Pass |
| Phosphate by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.25 | NAB | 10/16/2023 | Pass |
| Potassium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.054 | NAB | 10/16/2023 | Pass |
| Sodium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.084 | NAB | 10/16/2023 | Pass |
| Zinc by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/16/2023 | Pass |

Miscellaneous Secondary Unregulated Quality Standards

| | | | | | | | |
|--|-------------------|-----------------|----------------|---------------|-----|------------|-----|
| Identify by FTIR (attached) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MFB | 10/17/2023 | --- |
| Density @ 20degC | g/cm ³ | 3675 | Not Applicable | 1.0913 | MFB | 10/17/2023 | --- |

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.

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Certification Approval _____

Laboratory Director: Anthony J Scala

Date: 10/17/2023

| | |
|-------------|--|
| 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 | 10/19/2023 |

| | |
|---------------|-----------------------------|
| Enalytic ID | E2310022-001 |
| TANK | 2 & 3 |
| Batch Number | 310132023L |
| Train | UTLX647749 |
| Sample ID | DEF 32.5% |
| Date Sampled | 10/13/2023 |
| Date Received | 10/16/2023 |
| ISO 17025 | Certificate Number: AT-2956 |

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF TANK 2 & 3 Batch # 310132023L Train # UTLX647749

| Test Parameter/Method | Units | Test Method (ISO) ¹ | Acceptable Limit ² | Results ⁴ | Chemist | Analysis Date | Pass/Fail |
|-------------------------------|------------------------------|--------------------------------|-------------------------------|----------------------|---------|---------------|-----------|
| Urea Content | wt% | 22241-2 Annex C | 31.8-33.2 | 32.0 | SPT | 10/19/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3821 | MFB | 10/17/2023 | Pass |
| Alkalinity as NH ₃ | % | 22241-2 Annex D | <0.2 | 0.07 | MDC | 10/16/2023 | Pass |
| Biuret | % | 22241-2 Annex E | <0.3 | 0.15 | MDC | 10/17/2023 | Pass |
| Aldehyde | mg/kg | 22241-2 Annex F | <5.0 | <1.0 | MFB | 10/16/2023 | Pass |
| Insolubles | mg/kg | 22241-2 Annex G | <20 | <2.5 | MFB | 10/16/2023 | Pass |
| Aluminum by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/18/2023 | Pass |
| Calcium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.40 | NAB | 10/18/2023 | Pass |
| Chromium by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/18/2023 | Pass |
| Copper by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/18/2023 | Pass |
| Iron by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/18/2023 | Pass |
| Magnesium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/18/2023 | Pass |
| Nickel by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/18/2023 | Pass |
| Phosphate by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.25 | NAB | 10/18/2023 | Pass |
| Potassium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/18/2023 | Pass |
| Sodium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.086 | NAB | 10/18/2023 | Pass |
| Zinc by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | 0.029 | NAB | 10/18/2023 | Pass |

Miscellaneous Secondary Unregulated Quality Standards

| | | | | | | | |
|--|-------------------|-----------------|----------------|---------------|-----|------------|-----|
| Identify by FTIR (attached) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MFB | 10/17/2023 | --- |
| Density @ 20degC | g/cm ³ | 3675 | Not Applicable | 1.0913 | MFB | 10/17/2023 | --- |

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.

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Certification Approval _____

Laboratory Director: Anthony J Scala

Date: 10/19/2023

| | |
|-------------|--|
| 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 | 10/24/2023 |

Quality: Excellent

| | |
|---------------|-----------------------------|
| Enalytic ID | E2310038-001 |
| TANKS | 1/5 |
| Batch Number | 310182023M |
| Train | UTLX648231 |
| Sample ID | DEF 32.5% |
| Date Sampled | 10/18/2023 |
| Date Received | 10/20/2023 |
| ISO 17025 | Certificate Number: AT-2956 |

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF TANKS 1/5 Batch # 310182023M Train # UTLX648231

| Test Parameter/Method | Units | Test Method (ISO) ¹ | Acceptable Limit ² | Results ⁴ | Chemist | Analysis Date | Pass/Fail |
|-------------------------------|------------------------------|--------------------------------|-------------------------------|----------------------|---------|---------------|-----------|
| Urea Content | wt% | 22241-2 Annex C | 31.8-33.2 | 32.2 | SPT | 10/24/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3825 | MDC | 10/24/2023 | Pass |
| Alkalinity as NH ₃ | % | 22241-2 Annex D | <0.2 | 0.08 | MFB | 10/24/2023 | Pass |
| Biuret | % | 22241-2 Annex E | <0.3 | 0.17 | MDC | 10/23/2023 | Pass |
| Aldehyde | mg/kg | 22241-2 Annex F | <5.0 | <1.0 | MFB | 10/23/2023 | Pass |
| Insolubles | mg/kg | 22241-2 Annex G | <20 | <2.5 | MFB | 10/23/2023 | Pass |
| Aluminum by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/20/2023 | Pass |
| Calcium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/20/2023 | Pass |
| Chromium by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/20/2023 | Pass |
| Copper by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/20/2023 | Pass |
| Iron by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/20/2023 | Pass |
| Magnesium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/20/2023 | Pass |
| Nickel by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/20/2023 | Pass |
| Phosphate by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.25 | NAB | 10/20/2023 | Pass |
| Potassium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/20/2023 | Pass |
| Sodium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/20/2023 | Pass |
| Zinc by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | 0.044 | NAB | 10/20/2023 | Pass |

Miscellaneous Secondary Unregulated Quality Standards

| | | | | | | | |
|--|-------------------|-----------------|----------------|---------------|-----|------------|-----|
| Identify by FTIR (attached) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MDC | 10/24/2023 | --- |
| Density @ 20degC | g/cm ³ | 3675 | Not Applicable | 1.0908 | MFB | 10/24/2023 | --- |

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.

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Certification Approval _____

Laboratory Director: Anthony J Scala

Date: 10/24/2023

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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 | 10/27/2023 |

| | |
|---------------|-----------------------------|
| Enalytic ID | E2310054-001 |
| TANK | 3 & 4 |
| Batch Number | 310242023P |
| Train | TILX264953 |
| Sample ID | DEF 32.2% |
| Date Sampled | 10/24/2023 |
| Date Received | 10/25/2023 |
| ISO 17025 | Certificate Number: AT-2956 |

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.2% DEF TANK 3 & 4 Batch # 310242023P Train # TILX264953

| Test Parameter/Method | Units | Test Method (ISO) ¹ | Acceptable Limit ² | Results | Chemist | Analysis Date | Pass/Fail |
|-------------------------------|------------------------------|--------------------------------|-------------------------------|---------|---------|---------------|-----------|
| Urea Content | wt% | 22241-2 Annex C | 31.8-33.2 | 32.1 | SPT | 10/27/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3823 | SPT | 10/27/2023 | Pass |
| Alkalinity as NH ₃ | % | 22241-2 Annex D | <0.2 | 0.05 | MFB | 10/26/2023 | Pass |
| Biuret | % | 22241-2 Annex E | <0.3 | 0.17 | MDC | 10/26/2023 | Pass |
| Aldehyde | mg/kg | 22241-2 Annex F | <5.0 | <1.0 | MFB | 10/27/2023 | Pass |
| Insolubles | mg/kg | 22241-2 Annex G | <20 | 3.2 | MFB | 10/25/2023 | Pass |
| Aluminum by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/26/2023 | Pass |
| Calcium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/26/2023 | Pass |
| Chromium by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/26/2023 | Pass |
| Copper by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/26/2023 | Pass |
| Iron by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/26/2023 | Pass |
| Magnesium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/26/2023 | Pass |
| Nickel by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/26/2023 | Pass |
| Phosphate by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.29 | NAB | 10/26/2023 | Pass |
| Potassium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/26/2023 | Pass |
| Sodium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.19 | NAB | 10/26/2023 | Pass |
| Zinc by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/26/2023 | Pass |

Miscellaneous Secondary Unregulated Quality Standards

| | | | | | | | |
|--|-------------------|-----------------|----------------|--------|-----|------------|-----|
| Identify by FTIR (attached) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MDC | 10/27/2023 | --- |
| Density @ 20degC | g/cm ³ | 3675 | Not Applicable | 1.0898 | CAR | 10/27/2023 | --- |

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.

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 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

Date: 10/27/2023

| | |
|-------------|--|
| 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 | 10/31/2023 |

| | |
|---------------|-----------------------------|
| Enalytic ID | E2310057-001 |
| TANK | 2 |
| Batch Number | 310252023M |
| Train | GBRX715553 |
| Sample ID | DEF 32.0% |
| Date Sampled | 10/25/2023 |
| Date Received | 10/26/2023 |
| ISO 17025 | Certificate Number: AT-2956 |

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.0% DEF TANK 2 Batch # 310252023M Train # GBRX715553

| Test Parameter/Method | Units | Test Method (ISO) ¹ | Acceptable Limit ² | Results ⁴ | Chemist | Analysis Date | Pass/Fail |
|-------------------------------|------------------------------|--------------------------------|-------------------------------|----------------------|---------|---------------|-----------|
| Urea Content | wt% | 22241-2 Annex C | 31.8-33.2 | 31.8 | SPT | 10/31/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3818 | CAR | 10/27/2023 | Pass |
| Alkalinity as NH ₃ | % | 22241-2 Annex D | <0.2 | 0.05 | MFB | 10/26/2023 | Pass |
| Biuret | % | 22241-2 Annex E | <0.3 | 0.12 | MDC | 10/26/2023 | Pass |
| Aldehyde | mg/kg | 22241-2 Annex F | <5.0 | <1.0 | MFB | 10/27/2023 | Pass |
| Insolubles | mg/kg | 22241-2 Annex G | <20 | <2.5 | MFB | 10/30/2023 | Pass |
| Aluminum by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/30/2023 | Pass |
| Calcium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/30/2023 | Pass |
| Chromium by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/30/2023 | Pass |
| Copper by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | 0.024 | NAB | 10/30/2023 | Pass |
| Iron by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/30/2023 | Pass |
| Magnesium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 10/30/2023 | Pass |
| Nickel by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | 0.082 | NAB | 10/30/2023 | Pass |
| Phosphate by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.25 | NAB | 10/30/2023 | Pass |
| Potassium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.18 | NAB | 10/30/2023 | Pass |
| Sodium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | 0.14 | NAB | 10/30/2023 | Pass |
| Zinc by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 10/30/2023 | Pass |

Miscellaneous Secondary Unregulated Quality Standards

| | | | | | | | |
|--|-------------------|-----------------|----------------|---------------|-----|------------|-----|
| Identify by FTIR (attached) ³ | Spectra | 22241-2 Annex J | Control Match | Match | CAR | 10/27/2023 | --- |
| Density @ 20degC | g/cm ³ | 3675 | Not Applicable | 1.0898 | CAR | 10/27/2023 | --- |

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 extended 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

Date: 10/31/2023

| | |
|-------------|--|
| 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 | 11/3/2023 |

Quality: Excellent

| | |
|---------------|-----------------------------|
| Enalytic ID | E2311001-001 |
| TANK | 5 AND 1 |
| Batch Number | 310312023M |
| Train | UTLX680530 |
| Sample ID | DEF 32.4% |
| Date Sampled | 10/31/2023 |
| Date Received | 11/1/2023 |
| ISO 17025 | Certificate Number: AT-2956 |

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.4% DEF TANK 5 AND 1 Batch # 310312023M Train # UTLX680530

| Test Parameter/Method | Units | Test Method (ISO) ¹ | Acceptable Limit ² | Results ⁴ | Chemist | Analysis Date | Pass/Fail |
|-------------------------------|------------------------------|--------------------------------|-------------------------------|----------------------|---------|---------------|-----------|
| Urea Content | wt% | 22241-2 Annex C | 31.8-33.2 | 32.1 | SPT | 11/3/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3823 | MDC | 11/2/2023 | Pass |
| Alkalinity as NH ₃ | % | 22241-2 Annex D | <0.2 | 0.04 | MDC | 11/3/2023 | Pass |
| Biuret | % | 22241-2 Annex E | <0.3 | 0.16 | MDC | 11/1/2023 | Pass |
| Aldehyde | mg/kg | 22241-2 Annex F | <5.0 | <1.0 | MFB | 11/3/2023 | Pass |
| Insolubles | mg/kg | 22241-2 Annex G | <20 | <2.5 | MFB | 11/2/2023 | Pass |
| Aluminum by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 11/2/2023 | Pass |
| Calcium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 11/2/2023 | Pass |
| Chromium by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 11/2/2023 | Pass |
| Copper by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 11/2/2023 | Pass |
| Iron by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 11/2/2023 | Pass |
| Magnesium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 11/2/2023 | Pass |
| Nickel by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 11/2/2023 | Pass |
| Phosphate by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.25 | NAB | 11/2/2023 | Pass |
| Potassium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 11/2/2023 | Pass |
| Sodium by ICP-OES | mg/kg | 22241-2 Annex I | <0.5 | <0.05 | NAB | 11/2/2023 | Pass |
| Zinc by ICP-OES | mg/kg | 22241-2 Annex I | <0.2 | <0.02 | NAB | 11/2/2023 | Pass |

Miscellaneous Secondary Unregulated Quality Standards

| | | | | | | | |
|--|-------------------|-----------------|----------------|---------------|-----|-----------|-----|
| Identify by FTIR (attached) ³ | Spectra | 22241-2 Annex J | Control Match | Match | CAR | 11/3/2023 | --- |
| Density @ 20degC | g/cm ³ | 3675 | Not Applicable | 1.0903 | MFB | 11/3/2023 | --- |

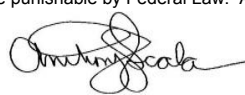
Note 1: All ISO standards are up to date with the latest revisions.

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 extended 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

Date: 11/3/2023