

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 ⁴ | Chemist | Analysis | Pass/ |
|------------------------------------------|------------------------------|---------------------------|--------------------|----------------------|-------------|----------|-------|
| | | Method (ISO) ¹ | Limit ² | | | Date | Fail |
| Urea Content | wt% | 22241-2 Annex C | 31.8-33.2 | 32.3 | SPT | 9/7/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3826 | MFB | 9/5/2023 | Pass |
| Alkalinity as NH ₃ | % | 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) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MDC | 9/5/2023 | |

| Identify by FTIR (attached) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MDC | 9/5/2023 | |
|------------------------------------------|-------------------|-----------------|----------------|--------|-----|----------|--|
| Density @ 20degC | g/cm ³ | 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.

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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 |
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| 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 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 | 9/8/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3824 | MLB | 9/7/2023 | Pass |
| Alkalinity as NH ₃ | % | 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) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MDC | 9/8/2023 | |

| Identify by FTIR (attached) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MDC | 9/8/2023 | |
|------------------------------------------|-------------------|-----------------|----------------|--------|-----|----------|--|
| Density @ 20degC | g/cm ³ | 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.

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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 | Results ⁴ | Chemist | Analysis | Pass/ |
|------------------------------------------|------------------------------|---------------------------|--------------------|-----------------------------|-------------|-----------|-------|
| | | Method (ISO) ¹ | Limit ² | | | Date | Fail |
| Urea Content | wt% | 22241-2 Annex C | 31.8-33.2 | 31.9 | SPT | 9/14/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3820 | MFB | 9/14/2023 | Pass |
| Alkalinity as NH ₃ | % | 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) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MFB | 9/14/2023 | |

| Identify by FTIR (attached) ^o | 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.

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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

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|-------------|-----------------------|
| 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 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 | 9/20/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3824 | MFB | 9/18/2023 | Pass |
| Alkalinity as NH ₃ | % | 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) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MDC | 9/19/2023 | |
| Density @ 20degC | g/cm ³ | 3675 | Not Applicable | 1.0893 | MFB | 9/18/2023 | |

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Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 9/20/2023



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| 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 | TANK 1 & 2 | Batch # 309272023L | Train # GBRX716310 | | | |

| 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 | 31.9 | SPT | 10/2/2023 | Pass |
| Refractive Index @ 20degC | N _D ²⁰ | 22241-2 Annex C | 1.3814-1.3843 | 1.3820 | MDC | 9/29/2023 | Pass |
| Alkalinity as NH ₃ | % | 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) ³ | Spectra | 22241-2 Annex J | Control Match | Match | MFB | 10/2/2023 | |
| Density @ 20degC | g/cm ³ | 3675 | Not Applicable | 1.0883 | MDC | 9/29/2023 | |

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