

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	2/7/2024

Enalytic ID	E2402004-001
TANK #	4 & 5
Batch Number	302022024P
Train #	UTLX647587
Sample ID	DEF 32.7%
Date Sampled	2/2/2024
Date Received	2/5/2024
ISO 17025	Accreditation Number: 90900

Quality: Excellent

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.7% DEF TANK # 4 & 5 Batch # 302022024P Train # UTLX647587


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	32.6	SPT	2/7/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3832	MDC	2/7/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.08	MFB	2/5/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	MDC	2/5/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	2/6/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	2/5/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/5/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/5/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/5/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/5/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/5/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/5/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/5/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	2/5/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/5/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/5/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/5/2024	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	2/7/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0923	MFB	2/5/2024	---

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.

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Certification Approval 
 Laboratory Director: Anthony J Scala

Date: 2/7/2024

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	2/12/2024

Enalytic ID	E2402010-001
TANK #	1 & 3
Batch Number	302052024M
Train #	UTLX647717
Sample ID	DEF 32.6%
Date Sampled	2/5/2024
Date Received	2/6/2024
ISO 17025	Certificate Number: L24-103

Quality: Excellent

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.6% DEF TANK # 1 & 3 Batch # 302052024M Train # UTLX647717

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	32.4	SPT	2/8/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3828	MDC	2/7/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.08	MFB	2/9/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	MDC	2/7/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	2/8/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	2/7/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/8/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/8/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.080	BDK	2/8/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/8/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.10	BDK	2/8/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/8/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/8/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	2/8/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/8/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/8/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/8/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	2/7/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0908	MFB	2/7/2024	---

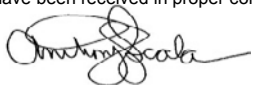
Note 1: All ISO standards are up to date with the latest revisions.

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.

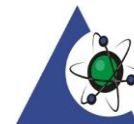
Note 3: ISO 17025 accreditation not applied for.

Note 4: Report has been Amended as follows: corrected values for Refractive Index, Chromium, Iron and Potassium, and the Analysis Date for Density has been corrected.

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Certification Approval 
Laboratory Director: Anthony J Scala

Date: 2/12/2024



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	2/16/2024

Enalytic ID	E2402023-001
TANK #	17
Batch Number	302102024P
TANK #	2 + 3
Sample ID	DEF 32.7%
Date Sampled	2/10/2024
Date Received	2/13/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.7% DEF TANK # 17 Batch # 302102024P TANK # 2 + 3

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	32.4	SPT	2/16/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3829	MFB	2/16/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.07	MFB	2/14/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.21	SPT	2/14/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	2/15/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	2/15/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/13/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/13/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/13/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.10	BDK	2/13/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/13/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/13/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/13/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	2/13/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.33	BDK	2/13/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.19	BDK	2/13/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/13/2024	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MFB	2/15/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0913	MFB	2/16/2024	---

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Certification Approval _____

Laboratory Director: Anthony J Scala

Date: 2/16/2024



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	2/23/2024

Enalytic ID	E2402031-001
Train #	GBRX716296
Batch Number	302202024P
TANKS #	5 & 4
Sample ID	DEF 32.5%
Date Sampled	2/20/2024
Date Received	2/21/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Train # GBRX716296 Batch # 302202024P TANKS # 5 & 4


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	32.3	SPT	2/23/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3826	MDC	2/21/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.09	MFB	2/22/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.17	MDC	2/22/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	2/21/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	2/21/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/21/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.19	BDK	2/21/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/21/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/21/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/21/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/21/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/21/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	2/21/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.10	BDK	2/21/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/21/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/21/2024	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	2/21/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0910	MDC	2/21/2024	---

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Certification Approval 

Laboratory Director: Anthony J Scala

Date: 2/23/2024

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	2/26/2024

Enalytic ID	E2402034-001
Train #	GATX235322
Batch Number	302212024T
TANKS #	3, 1
Sample ID	DEF 35.4%
Date Sampled	2/21/2024
Date Received	2/22/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 35.4% DEF Train # GATX235322 Batch # 302212024T TANKS # 3, 1

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	32.3	SPT	2/23/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3827	MDC	2/22/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	MFB	2/22/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	MDC	2/22/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	2/23/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	2/22/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/22/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.25	BDK	2/22/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/22/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.10	BDK	2/22/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/22/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/22/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/22/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	2/22/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.29	BDK	2/22/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.21	BDK	2/22/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/22/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

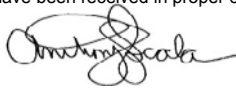
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	2/26/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0910	MDC	2/22/2024	---

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Certification Approval 

Laboratory Director: Anthony J Scala

Date: 2/26/2024



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	3/13/2024

Enalytic ID	E2403022-001
TANK #	10
Batch Number	302232024T
TANKS #	3&2
Sample ID	DEF 32.5%
Date Sampled	3/7/2024
Date Received	3/8/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF TANK # 10 Batch # 302232024T TANKS # 3&2


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	32.6	SPT	3/13/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3832	MDC	3/13/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.04	MFB	3/12/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.17	MDC	3/12/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	3/13/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	3/11/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/12/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/12/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/12/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/12/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/12/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/12/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/12/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	3/12/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.11	BDK	3/12/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/12/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/12/2024	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	3/13/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0918	MFB	3/13/2024	---

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Certification Approval 
 Laboratory Director: Anthony J Scala

Date: 3/13/2024



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	3/4/2024

Enalytic ID	E2402039-001
Train #	UTLX647976
Batch Number	302272024M
TANKS #	4&5
Sample ID	DEF 32.2%
Date Sampled	2/27/2024
Date Received	2/28/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.2% DEF Train # UTLX647976 Batch # 302272024M TANKS # 4&5

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	3/1/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3823	MDC	3/1/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.09	MDC	3/1/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	MDC	2/29/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	3/1/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MDC	2/29/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/28/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/28/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/28/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/28/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/28/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/28/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/28/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	2/28/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/28/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	2/28/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	2/28/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	3/4/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0900	MDC	2/29/2024	---

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 Perry Johnson certificate #L24-103. 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

Date: 3/4/2024