



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	3/11/2024

Enalytic ID	E2403014-001
Train #	GBRX716277
Batch Number	303062024P
TANKS #	4&5
Sample ID	DEF 32.3%
Date Sampled	3/6/2024
Date Received	3/7/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.3% DEF Train # GBRX716277 Batch # 303062024P 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	32.3	SPT	3/11/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3826	MDC	3/8/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.07	MFB	3/7/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.17	MDC	3/7/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	3/8/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	3/7/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/7/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/7/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/7/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.080	BDK	3/7/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/7/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/7/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/7/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	3/7/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.18	BDK	3/7/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.12	BDK	3/7/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/7/2024	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	3/8/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0918	MFB	3/8/2024	---

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: 3/11/2024

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	3/19/2024

Enalytic ID	E2403043-001
To TANK #	1
Batch Number	303014202L
Sample ID	DEF 32.5%
Date Sampled	3/14/2024
Date Received	3/15/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF To TANK # 1 Batch # 303014202L

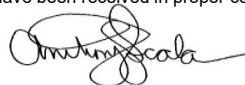
Test Parameter/Method	Units	Test Method (ISO) ¹	Acceptable Limit ²	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	32.7	SPT	3/19/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3833	MDC	3/18/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.06	MDC	3/15/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.13	MDC	3/19/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	3/15/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	3/18/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.16	BDK	3/18/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.40	BDK	3/18/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	3/18/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	3/18/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.16	BDK	3/18/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.16	BDK	3/18/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	3/18/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.5	BDK	3/18/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.16	BDK	3/18/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.16	BDK	3/18/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	3/18/2024	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	3/19/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0938	MFB	3/18/2024	---

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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.

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Certification Approval 
Laboratory Director: Anthony J Scala

Date: 3/19/2024

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	3/19/2024

Enalytic ID	E2403043-002
From TANK #	12
To #	2
Batch Number	303142024P
Sample ID	DEF 32.5%
Date Sampled	3/14/2024
Date Received	3/15/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF From TANK # 12 To # 2 Batch # 303142024P

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	3/19/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3829	MDC	3/18/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.07	MDC	3/15/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	3/19/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	3/15/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	3/18/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.16	BDK	3/18/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.26	BDK	3/18/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	3/18/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	3/18/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.16	BDK	3/18/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.16	BDK	3/18/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	3/18/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.5	BDK	3/18/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.16	BDK	3/18/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.16	BDK	3/18/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	3/18/2024	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	3/19/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0923	MFB	3/18/2024	---

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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.

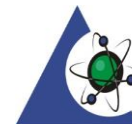
Note 3: ISO 17025 accreditation not applied for.

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Certification Approval _____

Laboratory Director: Anthony J Scala

Date: 3/19/2024



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	3/22/2024

Enalytic ID	E2403052-001
SOLUTIONAZE	From TANK # 9 to TANK # 4
Batch Number	303182024L
Sample ID	DEF 32.5%
Date Sampled	3/18/2024
Date Received	3/19/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF SOLUTIONAZE From TANK # 9 to TANK # 4 Batch # 303182024L

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	32.5	SPT	3/22/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3828	MDC	3/22/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.08	MDC	3/21/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.11	MDC	3/20/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	3/21/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	3/21/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/20/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/20/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/20/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.20	BDK	3/20/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/20/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/20/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.060	BDK	3/20/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	3/20/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/20/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.20	BDK	3/20/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/20/2024	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	3/20/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0938	MFB	3/22/2024	---

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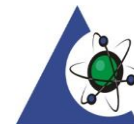
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Certification Approval _____

Laboratory Director: Anthony J Scala

Date: 3/22/2024



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	3/26/2024

Analytic ID	E2403053-001
Train #	UTLX647984
Batch Number	303202024M
TANK #	2,4
Sample ID	DEF 32.7%
Date Sampled	3/20/2024
Date Received	3/21/2024
ISO 17025	Certificate Number: L24-103

Quality: Excellent

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.7% DEF Train # UTLX647984 Batch # 303202024M TANK # 2,4

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	3/25/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3827	MDC	3/22/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.06	MFB	3/25/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	3/22/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	3/22/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	3/25/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/26/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/26/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/26/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	3/26/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/26/2024	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	3/25/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0915	MDC	3/25/2024	---

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Certification Approval _____

Laboratory Director: Anthony J Scala

Date: 3/26/2024

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	3/27/2024

Enalytic ID	E2403055-001
Train #	GBRX716286
Batch Number	303212024T
TANK #	3 & 4
Sample ID	DEF 32.5%
Date Sampled	3/21/2024
Date Received	3/25/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Train # GBRX716286 Batch # 03212024T TANK # 3 & 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	32.4	SPT	3/27/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3828	MDC	3/26/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.07	MFB	3/25/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	3/26/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	3/26/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	3/25/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/26/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.051	BDK	3/26/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.041	BDK	3/26/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	3/26/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/26/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/26/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

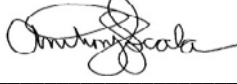
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	3/26/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0908	MFB	3/27/2024	---

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Certification Approval 

Laboratory Director: Anthony J Scala

Date: 3/27/2024



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	4/2/2024

Enalytic ID	E2403060-001
Train #	GBRX705230
Batch Number	303252024T
TANK #	1
Sample ID	DEF 32.4%
Date Sampled	3/25/2024
Date Received	3/28/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.4% DEF Train # GBRX705230 Batch # 03252024T TANK # 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	32.2	SPT	4/2/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3824	MDC	4/2/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.08	MFB	4/2/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.17	MDC	4/1/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	4/1/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	4/1/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/28/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/28/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	3/28/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.089	BDK	3/28/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/28/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	3/28/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.079	BDK	3/28/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	3/28/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.28	BDK	3/28/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.18	BDK	3/28/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.049	BDK	3/28/2024	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	4/2/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0913	MFB	4/2/2024	---

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: 4/2/2024

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	4/5/2024

Enalytic ID	E2404009-001
Train #	GATX223448
Batch Number	303292024L
TANKS #	5 & 4
Sample ID	DEF 32.5%
Date Sampled	3/29/2024
Date Received	4/2/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Train # GATX223448 TANKS # 5 & 4 Batch # 303292024L

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	4/3/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3824	MDC	4/3/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.07	MFB	4/4/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.17	MDC	4/3/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	4/3/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	4/3/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	4/3/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	4/3/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	4/3/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	4/3/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	4/3/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	4/3/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	4/3/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.31	BDK	4/3/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	4/3/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.10	BDK	4/3/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.04	BDK	4/3/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	4/3/2024	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0895	MDC	4/4/2024	---

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Certification Approval 

Laboratory Director: Anthony J Scala

Date: 4/5/2024