



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	6/7/2024

Enalytic ID	E2406006-001
Train	UTLX680569
Batch #	306012024P
Tank #	4&5
Sample ID	DEF 32.4%
Date Sampled	6/1/2024
Date Received	6/5/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.4% DEF Train UTLX680569 Tank # 4&5 Batch # 306012024P

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	6/7/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3823	MDC	6/6/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.06	MFB	6/7/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.17	MDC	6/6/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	6/6/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	6/6/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/5/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/5/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/5/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/5/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/5/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/5/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/5/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	6/5/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/5/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/5/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/5/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

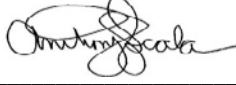
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	---	---	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0889	MFB	6/6/2024	---

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: 6/7/2024

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	6/7/2024

Enalytic ID	E2406006-002
Train	TILX265616
Batch #	306012024T
Tank #	1&2
Sample ID	DEF 32.2%
Date Sampled	6/3/2024
Date Received	6/5/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.2% DEF Train TILX265616 Tank # 1&2 Batch # 306012024T

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	32.0	SPT	6/7/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3821	MDC	6/6/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	MFB	6/7/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	MDC	6/6/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	6/6/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	6/6/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/5/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/5/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/5/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/5/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/5/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/5/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/5/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	6/5/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.16	BDK	6/5/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/5/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/5/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	---	---	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0893	MFB	6/6/2024	---

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Certification Approval 

Laboratory Director: Anthony J Scala

Date: 6/7/2024



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	6/7/2024

Enalytic ID	E2406007-001
Train	TIMX400168
Batch #	306042024T
Tank #	3&5
Sample ID	DEF 32.4%
Date Sampled	6/4/2024
Date Received	6/6/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.4% DEF Train TIMX400168 Tank # 3&5 Batch # 306042024T

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	6/7/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3823	MDC	6/6/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	MFB	6/7/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	MDC	6/6/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	6/6/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	6/6/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/7/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/7/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/7/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/7/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/7/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/7/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/7/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	6/7/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/7/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/7/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/7/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	---	---	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0883	MFB	6/6/2024	---

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Certification Approval 

Laboratory Director: Anthony J Scala

Date: 6/7/2024



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	6/13/2024

Analytic ID	E2406013-001
Train #	GATX224303
Batch #	306072024M
T #	4&1
Sample ID	DEF 32.2%
Date Sampled	6/7/2024
Date Received	6/11/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.2% DEF Train # GATX224303 T # 4&1 Batch # 306072024M

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	32.0	SPT	6/12/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3822	MDC	6/11/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.07	MFB	6/12/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	6/11/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	6/11/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	3.5	MFB	6/12/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/12/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/12/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/12/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/12/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/12/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/12/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/12/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	6/12/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/12/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/12/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/12/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	---	---	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0888	MFB	6/12/2024	---

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Note 3: ISO 17025 accreditation not applied for.

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Certification Approval 

Laboratory Director: Anthony J Scala

Date: 6/13/2024



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	6/19/2024

Enalytic ID	E2406031-001
Train #	223453
Batch #	306122024M
Tank #	4&5
Sample ID	DEF 32.2%
Date Sampled	6/12/2024
Date Received	6/17/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.2% DEF Train # 223453 Tank # 4&5 Batch # 306122024M

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	32.0	SPT	6/19/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3822	MDC	6/17/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.06	MFB	6/18/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	6/17/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	6/17/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	6/17/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/19/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/19/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/19/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/19/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/19/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/19/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/19/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	6/19/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/19/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/19/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/19/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	---	---	---	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0883	MFB	6/18/2024	---

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Certification Approval 

Laboratory Director: Anthony J Scala

Date: 6/19/2024



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	6/27/2024

Analytic ID	E2406067-001
SOLUTIONIZE	TANK #9
Batch #	306212024T
T:	3&4
Sample ID	DEF 32.2%
Date Sampled	6/21/2024
Date Received	6/25/2024
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.2% DEF SOLUTIONIZE TANK #9 T: 3&4 Batch # 306212024T

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	6/27/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3823	MDC	6/27/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	MDC	6/27/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.17	MDC	6/26/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	6/25/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	6/25/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/27/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/27/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/27/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/27/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/27/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/27/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/27/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	6/27/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/27/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/27/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/27/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	---	---	---	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0888	MFB	6/27/2024	---

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.

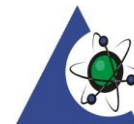
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Certification Approval 

Laboratory Director: Anthony J Scala

Date: 6/27/2024



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	6/28/2024

Analytic ID	E2406070-001
TRAIN #	GATX225054
Batch #	306222024T
T:	5
Sample ID	DEF 32.4%
Date Sampled	6/22/2024
Date Received	6/26/2024
ISO 17025	Certificate Number: L24-103

Quality: Excellent

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.4% DEF TRAIN # GATX225054 T: 5 Batch # 306222024T

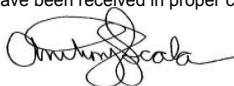
Test Parameter/Method	Units	Test Method (ISO) ¹	Acceptable Limit ²	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	31.8	SPT	6/27/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3819	MDC	6/27/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	MDC	6/27/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	MDC	6/26/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	6/27/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	6/27/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/28/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/28/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/28/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/28/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/28/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/28/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/28/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	6/28/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/28/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	6/28/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	6/28/2024	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	---	---	---	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0883	MFB	6/27/2024	---

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: 6/28/2024



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	7/3/2024

Analytic ID	E2407002-001
TRAIN #	SHPX200889
Batch #	306272024M
T:	1 & 2
Sample ID	DEF 32.4%
Date Sampled	6/27/2024
Date Received	7/1/2024
ISO 17025	Certificate Number: L24-103

Quality: Excellent

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.4% DEF TRAIN # SHPX200889 T: 1 & 2 Batch # 306272024M

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	7/3/2024	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3824	MDC	7/2/2024	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.08	MFB	7/2/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.17	MDC	7/1/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	7/1/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	7/1/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	7/3/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	7/3/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	7/3/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	7/3/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	7/3/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	7/3/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	7/3/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	7/3/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	7/3/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	7/3/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	7/3/2024	Pass

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	---	---	---	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0893	MDC	7/3/2024	---

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Certification Approval 

Laboratory Director: Anthony J Scala

Date: 7/3/2024