

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	5/11/2023



Enalytic ID	E2305020-001
Batch Number	3005042023M
Train Number	GATX224273
Sample ID	DEF 32.2%
Date Sampled	5/4/2023
Date Received	5/9/2023
ISO 17025	Certificate Number: AT-2956

# Certificate of Analysis

## Diesel Exhaust Fluid Analytical ISO-22241

## Client ID: 32.2% DEF Batch # 3005042023M Train # GATX224273

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) <sup>1</sup>	Limit <sup>2</sup>			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.3	SPT	5/11/2023	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3827	MFB	5/9/2023	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.10	MDC	5/10/2023	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	5/9/2023	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	5/9/2023	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	5/10/2023	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/10/2023	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.29	SPT	5/10/2023	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.029	SPT	5/10/2023	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	5/10/2023	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/10/2023	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.052	SPT	5/10/2023	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	5/10/2023	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.34	SPT	5/10/2023	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.11	SPT	5/10/2023	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.11	SPT	5/10/2023	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.42	SPT	5/10/2023	Fail

Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	MDC	5/9/2023	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0898	MFB	5/9/2023	

Miscellaneous Secondary Unregulated Quality Standards

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

Date: 5/11/2023

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

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Contact	Sharon Stegmuller
Address	422 East Barioni Blvd
	Imperial, CA 02251
Email	<u>defproducts@gmail.com</u>
Phone	760 355 7997
Report Date	5/16/2023



Enalytic ID	E2305025-002
Batch Number	305052023L
Train Number	UTLX647782
Sample ID	DEF 32.5%
Date Sampled	5/9/2023
Date Received	5/11/2023
ISO 17025	Certificate Number: AT-2956

# Certificate of Analysis

#### Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.5% DEF Batch # 305052023L Train # UTLX647782

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) <sup>1</sup>	Limit <sup>2</sup>			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.4	SPT	5/16/2023	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3828	MFB	5/11/2023	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.10	MDC	5/11/2023	Pass
Biuret	%	22241-2 Annex E	<0.3	0.17	MDC	5/12/2023	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	5/12/2023	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	5/11/2023	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/15/2023	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/15/2023	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	5/15/2023	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	5/15/2023	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/15/2023	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/15/2023	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	5/15/2023	Pass
Phosphate <i>by ICP-OES</i>	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	5/15/2023	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/15/2023	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/15/2023	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	5/15/2023	Pass

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Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	ADM	5/11/2023	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0903	MFB	5/11/2023	

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.

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Certification Approval

Date: 5/16/2023

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

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Contact	Sharon Stegmuller
Address	422 East Barioni Blvd
	Imperial, CA 02251
Email	<u>defproducts@gmail.com</u>
Phone	760 355 7997
Report Date	5/16/2023



Enalytic ID	E2305025-001
Batch Number	305052023M
Train Number	UTLX647895
Sample ID	DEF 32.5%
Date Sampled	5/9/2023
Date Received	5/11/2023
ISO 17025	Certificate Number: AT-2956

# Certificate of Analysis

#### Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.5% DEF Batch # 305052023M Train # UTLX647895

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) <sup>1</sup>	Limit <sup>2</sup>			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.3	SPT	5/16/2023	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3827	MFB	5/11/2023	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.10	MFB	5/11/2023	Pass
Biuret	%	22241-2 Annex E	<0.3	0.17	MDC	5/12/2023	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	5/12/2023	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	5/11/2023	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/15/2023	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.19	SPT	5/15/2023	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	5/15/2023	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	5/15/2023	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/15/2023	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/15/2023	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	5/15/2023	Pass
Phosphate <i>by ICP-OES</i>	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	5/15/2023	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/15/2023	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/15/2023	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	5/15/2023	Pass

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Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	ADM	5/11/2023	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0898	MFB	5/11/2023	

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Certification Approval

Date: 5/16/2023

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Page 1 of 1



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	5/19/2023



Enalytic ID	E2305033-001
Batch Number	305112023L
Train Number	SHPX200898
Sample ID	DEF 32.5%
Date Sampled	5/11/2023
Date Received	5/16/2023
ISO 17025	Certificate Number: AT-2956

# Certificate of Analysis

## Diesel Exhaust Fluid Analytical ISO-22241

## Client ID: 32.5% DEF Batch # 305112023L Train # SHPX200898

Test Parameter/Method	Units	Test	Acceptable	<b>Results</b> <sup>4</sup>	Chemist	Analysis	Pass/
		Method (ISO) <sup>1</sup>	Limit <sup>2</sup>			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.4	SPT	5/19/2023	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3828	MFB	5/16/2023	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.07	MDC	5/17/2023	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	MDC	5/16/2023	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	5/16/2023	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	5/17/2023	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/18/2023	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/18/2023	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	5/18/2023	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.043	SPT	5/18/2023	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/18/2023	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/18/2023	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.024	SPT	5/18/2023	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	5/18/2023	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/18/2023	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	5/18/2023	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.048	SPT	5/18/2023	Pass
	Mi	scellaneous Seco	ondary Unregula	ated Quality	/ Standards		

Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	MDC	5/17/2023	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0903	MFB	5/16/2023	

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: Analysis for the Metals section is being conducted on a different ICP while our 2 ICPs undergo upgrades. We have not performed the necessary ANAB QC checks, so the results are valid but not covered under our ISO 17025 Certification.

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Certification Approval

Laboratory Director: Anthony J Scala

Date: 5/19/2023

Enalytic DUNS Reg. Number: 02-636-0096



# Client:DEF Products, LLCContactSharon StegmullerAddress422 East Barioni BlvdImperial, CA 02251Emaildefproducts@gmail.comPhone760 355 7997Report Date5/30/2023



Enalytic ID	E2305051-001
TANK	2&4
Batch Number	305192023L
Train Number	TILX220084
Sample ID	DEF 32.5%
Date Sampled	5/19/2023
Date Received	5/25/2023
ISO 17025	Certificate Number: AT-2956

# Certificate of Analysis

### Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.5% DEF TANK 2&4 Batch # 305192023L Train # TILX220084

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2,4</sup>	Results⁵	Chemist	Analysis	Pass/
						Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	32.5	SPT	5/30/2023	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3830	MDC	5/25/2023	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.08	MDC	5/26/2023	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	MDC	5/25/2023	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	5/25/2023	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	5/25/2023	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	NAB	5/30/2023	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	NAB	5/30/2023	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	NAB	5/30/2023	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	NAB	5/30/2023	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	NAB	5/30/2023	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	NAB	5/30/2023	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	NAB	5/30/2023	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	NAB	5/30/2023	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	NAB	5/30/2023	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.072	NAB	5/30/2023	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	(<0.23)	0.23	NAB	5/30/2023	Pass
	Mi	scellaneous Seco	ondary Unregula	ated Qualit	y Standards		
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	MDC	5/26/2023	

Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	MDC	5/26/2023	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0903	MFB	5/25/2023	

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: The ISO 22241 acceptable limit plus reproducibility for Zinc is shown in parentheses, and is less than or equal to the value shown.

Note 5: Analysis for the Metals section is being conducted on a different ICP while our 2 ICPs undergo upgrades. We have not performed the necessary ANAB QC checks, so the results are valid but not covered under our ISO 17025 Certification.

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Certification Approval \_

Laboratory Director: Anthony J Scala

5/30/2023

Date:



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	6/7/2023



Enalytic ID	E2306003-001
TANK	2&3
Batch Number	305302023M
Train Number	GBRX704530
Sample ID	DEF 32.5%
Date Sampled	5/30/2023
Date Received	6/2/2023
ISO 17025	Certificate Number: AT-2956

# Certificate of Analysis

#### Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.5% DEF TANK 2&3 Batch # 305302023M Train # GBRX704530

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2,4</sup>	Results⁵	Chemist	Analysis Date	Pass/ Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	32.3	SPT	6/7/2023	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3827	MDC	6/6/2023	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.11	MDC	6/2/2023	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	6/5/2023	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	6/2/2023	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	6/5/2023	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	NAB	6/6/2023	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	NAB	6/6/2023	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.058	NAB	6/6/2023	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	NAB	6/6/2023	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	NAB	6/6/2023	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	NAB	6/6/2023	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	NAB	6/6/2023	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	NAB	6/6/2023	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	NAB	6/6/2023	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	NAB	6/6/2023	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	NAB	6/6/2023	Pass
	Mi	scellaneous Seco	ondary Unregula	ated Quality	y Standards		
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	MDC	6/5/2023	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0917	MLB	6/5/2023	

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: The ISO 22241 acceptable limit plus reproducibility for Zinc is shown in parentheses, and is less than or equal to the value shown.

Note 5: Analysis for the Metals section is being conducted on a different ICP while our 2 ICPs undergo upgrades. We have not performed the necessary ANAB QC checks, so the results are valid but not covered under our ISO 17025 Certification.

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 extensi 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

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6/7/2023

Date: