

Client:	DEF Products, LLC
Contact	Sharon Stegmuller
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	12/10/2021

Enalytic ID	E2112017-001
Batch Number	312062021P
Train Number	UTLX647727
Sample ID	DEF 32.5%
Date Sampled	12/6/2021
Date Received	12/8/2021
ISO 17025	Certificate Number: AT-2956

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch# 312062021P Train# UTLX647727

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.7	SPT	12/10/2021	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3832	ALB	12/8/2021	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.12	ALB	12/10/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.13	MDC	12/9/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	12/10/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	12/9/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	12/9/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/9/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/9/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/9/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/9/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.07	DSD	12/9/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/9/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/9/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/9/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/9/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/9/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	ALB	12/8/2021	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0910	ALB	12/8/2021	---

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: 12/10/2021

Client:	DEF Products, LLC
Contact	Sharon Stegmuller
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	12/10/2021

Enalytic ID	E2112017-002
Batch Number	312072021L
Train Number	TILX265570
Sample ID	DEF 32.5%
Date Sampled	12/7/2021
Date Received	12/8/2021
ISO 17025	Certificate Number: AT-2956

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch# 312072021L Train# TILX265570

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.6	SPT	12/10/2021	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3831	ALB	12/8/2021	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.03	ALB	12/10/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.12	MDC	12/9/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	12/10/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	2.5	MDC	12/9/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	12/9/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/9/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/9/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.03	DSD	12/9/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/9/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.10	DSD	12/9/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.03	DSD	12/9/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/9/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/9/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.05	DSD	12/9/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.05	DSD	12/9/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	ALB	12/8/2021	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0910	ALB	12/8/2021	---

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Date: 12/10/2021

Client:	DEF Products, LLC
Contact	Sharon Stegmuller
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	12/15/2021

Enalytic ID	E2112023-001
Batch Number	312072021M
Train Number	GATX220481
Sample ID	DEF 32.5%
Date Sampled	12/7/2021
Date Received	12/9/2021
ISO 17025	Certificate Number: AT-2956

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 312072021M Train # GATX220481

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.5	SPT	12/14/2021	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3830	MDC	12/9/2021	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.11	ALB	12/10/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	MDC	12/13/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	12/14/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	12/13/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	12/14/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/14/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/14/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.07	DSD	12/14/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/14/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	MDC	12/9/2021	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0893	ALB	12/10/2021	---

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Certification Approval \_\_\_\_\_

Laboratory Director: Anthony J Scala

Date: 12/15/2021

Client:	DEF Products, LLC
Contact	Sharon Stegmuller
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	12/15/2021

Enalytic ID	E2112023-002
Batch Number	312082021P
Train Number	TILX264858
Sample ID	DEF 32.5%
Date Sampled	12/8/2021
Date Received	12/9/2021
ISO 17025	Certificate Number: AT-2956

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 312082021P Train # TILX264858

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.4	SPT	12/14/2021	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3828	MDC	12/9/2021	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.10	ALB	12/10/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	MDC	12/13/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	12/14/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	12/13/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	12/14/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/14/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/14/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.07	DSD	12/14/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/14/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/14/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	MDC	12/9/2021	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0893	ALB	12/10/2021	---

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Date: 12/15/2021

Client:	DEF Products, LLC
Contact	Sharon Stegmuller
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	12/20/2021

Enalytic ID	E2112032-001
Batch Number	312102021M
Train Number	TILX264899
Sample ID	DEF 32.5%
Date Sampled	12/10/2021
Date Received	12/15/2021
ISO 17025	Certificate Number: AT-2956

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: **32.5% DEF** Batch # **312102021M** Train # **TILX264899**

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	<b>32.5</b>	SPT	12/20/2021	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	<b>1.3830</b>	ALB	12/16/2021	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	<b>0.07</b>	MDC	12/16/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	<b>0.14</b>	MDC	12/17/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<b>&lt;1.0</b>	MDC	12/15/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<b>&lt;2.0</b>	MDC	12/16/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.25</b>	DSD	12/16/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.05</b>	DSD	12/16/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.05</b>	DSD	12/16/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>0.06</b>	DSD	12/16/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.02</b>	DSD	12/16/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>0.08</b>	DSD	12/16/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.02</b>	DSD	12/16/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.05</b>	DSD	12/16/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.05</b>	DSD	12/16/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.05</b>	DSD	12/16/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>0.10</b>	DSD	12/16/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	<b>Match</b>	ALB	12/16/2021	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	<b>1.0898</b>	ALB	12/16/2021	---

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Certification Approval \_\_\_\_\_

Laboratory Director: Anthony J Scala

Date: 12/20/2021



Client:	DEF Products, LLC
Contact	Sharon Stegmuller
Address	422 East Barioni Blvd Imperial, CA 02251
Email	<a href="mailto:defproducts@gmail.com">defproducts@gmail.com</a>
Phone	760 355 7997
Report Date	12/30/2021

Enalytic ID	E2112072-001
Batch Number	312222021P
Train Number	UTLX647738
Sample ID	DEF 32.5%
Date Sampled	12/22/2021
Date Received	12/29/2021
ISO 17025	Certificate Number: AT-2956

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: **32.5% DEF** Batch # **312222021P** Train # **UTLX647738**

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	<b>32.4</b>	ALB	12/30/2021	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	<b>1.3828</b>	ALB	12/29/2021	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	<b>0.09</b>	MDC	12/29/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	<b>0.14</b>	MDC	12/30/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<b>&lt;1.0</b>	ALB	12/30/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<b>&lt;2.0</b>	ALB	12/30/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.25</b>	DSD	12/30/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>0.23</b>	DSD	12/30/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.05</b>	DSD	12/30/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>0.04</b>	DSD	12/30/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.02</b>	DSD	12/30/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>0.06</b>	DSD	12/30/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<b>&lt;0.02</b>	DSD	12/30/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.05</b>	DSD	12/30/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.05</b>	DSD	12/30/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>&lt;0.05</b>	DSD	12/30/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<b>0.05</b>	DSD	12/30/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	<b>Match</b>	ALB	12/29/2021	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	<b>1.0903</b>	ALB	12/29/2021	---

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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.

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 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: 12/30/2021