

Report Date 8/11/2025

6034 Corporate Dr. East Syracuse NY 13057 Web Site: Enalytic.com Ph:315-437-0255

PJLA Testing ISO/IEC 17025:2017

Client: DEF Products, LLC
Contact Sharon Stegmuller
Address 422 East Barioni Blvd
Imperial, CA 02251
Email defproducts@gmail.com
Phone 760 355 7997

Enalytic ID E2508012-001 TRAIN# GRBX712403 TRC# 308022025T T# 10 & 14 Sample ID DEF 32.1% Date Sampled 8/2/2025 Date Received 8/6/2025 Certificate Number: L24-103 ISO 17025

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.1% DEF TRAIN # GRBX712403 T # 10 & 14 TRC # 308022025T

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	31.9	SPT	8/11/2025	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3820	СТМ	8/8/2025	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	СТМ	8/7/2025	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	СТМ	8/8/2025	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	8/7/2025	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	8/6/2025	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/11/2025	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/11/2025	Pass
Chromium by ICP-0ES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/11/2025	Pass
Copper by ICP-0ES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/11/2025	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/11/2025	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/11/2025	Pass
Nickel by ICP-0ES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/11/2025	Pass
Phosphate by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	< 0.46	BDK	8/11/2025	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/11/2025	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/11/2025	Pass
Zinc by ICP-0ES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/11/2025	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	1.0887	СТМ	8/8/2025	

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

Enalytic DUNS Reg. Number: 02-636-0096

Date: 8/11/2025

Page 1 of 1



Report Date 8/14/2025

6034 Corporate Dr. East Syracuse NY 13057 Web Site: Enalytic.com Ph:315-437-0255

PJLA Testing

ISO/IEC 17025:2017

Client:	DEF Products, LLC
	Sharon Stegmuller
Address	422 East Barioni Blvd
	Imperial, CA 02251
Email	defproducts@gmail.com
Phone	760 355 7997

Enalytic ID	E2508023-001
TRAIN#	GATX222482
TRC#	308052025M
T#	1&3
Sample ID	DEF 32.8%
Date Sampled	8/5/2025
Date Received	8/12/2025
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.8% DEF TRAIN # GATX222482 T # 1&3 TRC # 308052025M

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	32.8	SPT	8/14/2025	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3834	СТМ	8/13/2025	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	MFB	8/13/2025	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	СТМ	8/12/2025	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	8/12/2025	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	CTM	8/12/2025	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/12/2025	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/12/2025	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/12/2025	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/12/2025	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/12/2025	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/12/2025	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/12/2025	Pass
Phosphate by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	8/12/2025	Pass
Potassium by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/12/2025	Pass
Sodium by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/12/2025	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/12/2025	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	1.0889	MFB	8/12/2025	

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

Enalytic DUNS Reg. Number: 02-636-0096

8/14/2025

Page 1 of 1

Date:



6034 Corporate Dr. East Syracuse NY 13057 Web Site: Enalytic.com Ph:315-437-0255

ISO/IEC 17025:2017

Client: DEF Products, LLC Contact Sharon Stegmuller Address 422 East Barioni Blvd Imperial, CA 02251 defproducts@gmail.com Email Phone 760 355 7997 Report Date 8/15/2025

Enalytic ID	E2508028-001
FROM:	TILX265526
TRC#	308092025L
T#	12/13
Sample ID	DEF 32.1%
Date Sampled	8/9/2025
Date Received	8/13/2025
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.1% DEF FROM: TILX265526 T # 12/13 TRC # 308092025L

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	31.9	SPT	8/15/2025	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3820	СТМ	8/15/2025	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	MFB	8/13/2025	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	CTM	8/15/2025	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	8/14/2025	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	8/14/2025	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/15/2025	Pass
Calcium by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/15/2025	Pass
Chromium by ICP-0ES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/15/2025	Pass
Copper by ICP-0ES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/15/2025	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/15/2025	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/15/2025	Pass
Nickel by ICP-0ES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/15/2025	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	8/15/2025	Pass
Potassium by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/15/2025	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/15/2025	Pass
Zinc by ICP-0ES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/15/2025	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	1.0887	СТМ	8/15/2025	

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	1.0887	CTM	8/15/2025	

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

Enalytic DUNS Reg. Number: 02-636-0096

Date:

8/15/2025



Report Date 8/27/2025

6034 Corporate Dr. East Syracuse NY 13057 Web Site: Enalytic.com Ph:315-437-0255

PJLA Testing

ISO/IEC 17025:2017

Client: DEF Products, LLC
Contact Sharon Stegmuller
Address 422 East Barioni Blvd
Imperial, CA 02251
Email defproducts@gmail.com
Phone 760 355 7997

Enalytic ID	E2508050-001
TRAIN#	TILX262356
TRC#	308202025P
T#	2&7
Sample ID	DEF 32.1%
Date Sampled	8/20/2025
Date Received	8/25/2025
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.1% DEF TRAIN # TILX262356 T # 2&7 TRC # 308202025P

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	32.0	SPT	8/27/2025	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3822	CTM	8/26/2025	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	СТМ	8/26/2025	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	СТМ	8/27/2025	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	8/26/2025	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	CTM	8/25/2025	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/26/2025	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/26/2025	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/26/2025	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/26/2025	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/26/2025	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/26/2025	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/26/2025	Pass
Phosphate by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	8/26/2025	Pass
Potassium by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	0.17	BDK	8/26/2025	Pass
Sodium by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/26/2025	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/26/2025	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	1.0889	CTM	8/26/2025	

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

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Certification Approval

Laboratory Director: Anthony J Scala

Date: 8/27/2025

Enalytic DUNS Reg. Number: 02-636-0096



6034 Corporate Dr. East Syracuse NY 13057 Enalytic.com Ph:315-437-0255 Web Site:

** Amended **



ISO/IEC 17025:2017

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 8/30/2025

Enalytic ID	E2508052-001
TRAIN#	GATX222473
TRC#	308222025T
T#	17&11
Sample ID	DEF 31.9%
Date Sampled	8/21/2025
Date Received	8/25/2025
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 31.9% DEF TRAIN # GATX222473 T # 17&11 TRC # 308222025T

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ^{2,4}			Date	Fail
Urea Content	wt%	22241-2 Annex C	(31.6-33.4) ⁵	31.7	SPT	8/27/2025	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3816	CTM	8/26/2025	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	CTM	8/26/2025	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	СТМ	8/27/2025	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	8/26/2025	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	CTM	8/25/2025	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/26/2025	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/26/2025	Pass
Chromium by ICP-0ES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/26/2025	Pass
Copper by ICP-0ES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/26/2025	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/26/2025	Pass
Magnesium by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/26/2025	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/26/2025	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	< 0.46	BDK	8/26/2025	Pass
Potassium by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/26/2025	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/26/2025	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/26/2025	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	1.0877	СТМ	8/26/2025	

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 22241-2 acceptable limit plus reproducibility for Urea Content is shown in parentheses and is within the set of limits shown.

Note 5: Report has been Amended to include the extended API limits for Urea Content.

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Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 8/30/2025



6034 Corporate Dr. East Syracuse NY 13057 Web Site: Enalytic.com Ph:315-437-0255

ISO/IEC 17025:2017

Client: DEF Products, LLC Contact Sharon Stegmuller Address 422 East Barioni Blvd Imperial, CA 02251 defproducts@gmail.com Email Phone 760 355 7997 Report Date 9/2/2025

Enalytic ID	E2508061-001
	GATX238968
TRC#	308262025L
T#	1/8
Sample ID	DEF 32.1%
Date Sampled	8/26/2025
Date Received	8/28/2025
ISO 17025	Certificate Number: L24-103

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.1% DEF GATX238968 T # 1/8 TRC # 308262025L

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	32.1	SPT	9/2/2025	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3822	СТМ	8/29/2025	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	MFB	8/29/2025	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	CTM	8/29/2025	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	9/2/2025	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	CTM	8/28/2025	Pass
Aluminum by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/29/2025	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/29/2025	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/29/2025	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/29/2025	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/29/2025	Pass
Magnesium by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/29/2025	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/29/2025	Pass
Phosphate by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	8/29/2025	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/29/2025	Pass
Sodium by ICP-0ES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	8/29/2025	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	8/29/2025	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	1.0889	СТМ	8/29/2025	

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

Enalytic DUNS Reg. Number: 02-636-0096

9/2/2025 Date:

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