

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	5/6/2024



Enalytic ID	E2405004-001
	SOLUTIONIZE TANK # 17
Batch #	305012024L
TANK #	3&4
Sample ID	DEF 32.7%
Date Sampled	5/1/2024
Date Received	5/2/2024
ISO 17025	Certificate Number: L24-103

## Certificate of Analysis

#### Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.7% DEF SOLUTIONIZE TANK # 17 TANK # 3&4 Batch # 305012024L

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	31.8-33.2	32.2	SPT	5/6/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3824	MDC	5/2/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.07	MFB	5/3/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	MDC	5/3/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	5/2/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	3.9	MFB	5/2/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/3/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/3/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/3/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/3/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/3/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/3/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/3/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	5/3/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/3/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/3/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/3/2024	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	5/2/2024	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0903	MFB	5/6/2024	

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** 

Date: 5/6/2024

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

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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	5/10/2024



Enalytic ID	E2405015-001
TRAIN #	TILX262276
Batch #	305042024P
TANK #	2&5
Sample ID	DEF 32.6%
Date Sampled	5/4/2024
Date Received	5/8/2024
ISO 17025	Certificate Number: L24-103

## Certificate of Analysis Diesel Exhaust Fluid Analytical ISO-22241

### Client ID: 32.6% DEF TRAIN # TILX262276 TANKS # 2&5 Batch # 305042024P

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	31.8-33.2	32.2	SPT	5/9/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3825	MDC	5/9/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.08	MDC	5/8/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	5/9/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	5/10/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	5/8/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/9/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/9/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/9/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	5/9/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/9/2024	Pass
	Mi	scellaneous Sec	ondary Unregula	ated Qualit	y Standards		
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	MDC	5/9/2024	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0898	MFB	5/9/2024	

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Certification Approval

Date: 5/10/2024

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096



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	5/13/2024



Enalytic ID	E2405020-001
TRAIN #	SHPX200889
Batch #	305062024P
TANK #	3
Sample ID	DEF 32.7%
Date Sampled	5/6/2024
Date Received	5/9/2024
ISO 17025	Certificate Number: L24-103

# Certificate of Analysis

#### Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.7% DEF TRAIN # SHPX200889 TANKS # 3 Batch # 305062024P

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	31.8-33.2	32.2	SPT	5/9/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3825	MDC	5/9/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.10	MDC	5/10/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	5/9/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	5/10/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	5/9/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/9/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/9/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/9/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	5/9/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/9/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/9/2024	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	5/9/2024	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0903	MDC	5/13/2024	

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Certification Approval

Date: 5/13/2024

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

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Client:	DEF Products, LLC
Contact	Sharon Stegmuller
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	Imperial, CA 02251
Email	defproducts@gmail.com
Phone	760 355 7997
Report Date	5/22/2024



Enalytic ID	E2405036-001
TRAIN #	UTLX647903
Batch #	305082024T
TANK #	1,5
Sample ID	DEF 32.5%
Date Sampled	5/14/2024
Date Received	5/17/2024
ISO 17025	Certificate Number: L24-103

## Certificate of Analysis Diesel Exhaust Fluid Analytical ISO-22241

### Client ID: 32.5% DEF TRAIN # UTLX647903 TANK # 1,5 Batch # 305082024T

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	31.8-33.2	32.5	SPT	5/21/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3830	MDC	5/21/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.06	MFB	5/20/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.19	MDC	5/20/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	5/17/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	5/20/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/21/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/21/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/21/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/21/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/21/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/21/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/21/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	5/21/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/21/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/21/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/21/2024	Pass
	Mi	scellaneous Sec	ondary Unregula	ated Qualit	y Standards		
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	MDC	5/20/2024	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0883	MFB	5/21/2024	

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**Certification Approval** 

Date: 5/22/2024

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096



Client:	DEF Products, LLC
Contact	Sharon Stegmuller
Address	422 East Barioni Blvd
	Imperial, CA 02251
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Phone	760 355 7997
Report Date	5/23/2024



Enalytic ID	E2405040-001
TRAIN #	UTLX647956
Batch #	305162024L
TANK #	3/4
Sample ID	DEF 32.3%
Date Sampled	5/17/2024
Date Received	5/21/2024
ISO 17025	Certificate Number: L24-103

## Certificate of Analysis

#### Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.3% DEF TRAIN # UTLX647956 TANK # 3/4 Batch # 305162024L

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	31.8-33.2	32.2	SPT	5/23/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3826	MDC	5/23/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.09	MDC	5/22/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.19	MDC	5/21/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	5/21/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	13	MDC	5/22/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/23/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.18	BDK	5/23/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/23/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/23/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/23/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/23/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/23/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	5/23/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/23/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/23/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/23/2024	Pass
	Mi	scellaneous Sec	ondary Unregula	ated Qualit	y Standards		
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	MDC	5/23/2024	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0883	MFB	5/21/2024	

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Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 5/23/2024

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Contact	Sharon Stegmuller
Address	422 East Barioni Blvd
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Email	<u>defproducts@gmail.com</u>
Phone	760 355 7997
Report Date	5/29/2024



Enalytic ID	E2405052-001
	TILX265559
Batch #	305222024T
TANK #	2&5
Sample ID	DEF 32.0%
Date Sampled	5/22/2024
Date Received	5/24/2024
ISO 17025	Certificate Number: L24-103

#### Certificate of Analysis Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.0% DEF TILX265559 TANK # 285 Batch # 305222024T

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	31.8-33.2	31.9	SPT	5/29/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3820	MDC	5/29/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	<0.01	MFB	5/29/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	MDC	5/28/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	5/28/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	7.4	MFB	5/28/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/29/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/29/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/29/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/29/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/29/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/29/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/29/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	5/29/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/29/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	5/29/2024	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	5/29/2024	Pass
	Mi	scellaneous Sec	ondary Unregula	ated Qualit	y Standards		
Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	Match	MDC	5/29/2024	
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0878	MFB	5/28/2024	

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

Date: 5/29/2024

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096