

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	9/9/2021



Enalytic ID	E2109012-002
Batch Number	309012021P
Train Number	GATX228460
Sample ID	DEF 32.5%
Date Sampled	8/27/2021
Date Received	9/7/2021
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch# 309012021P Train# GATX228460

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/	
		Method (ISO) ¹	Limit ²			Date	Fail	
Urea Content ³	wt%	22241-2 Annex C	31.8-33.4	32.7	SPT	9/9/2021	Pass	
Refractive Index @ 20degc	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3832	ALB	9/9/2021	Pass	
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	<0.01	MDC	9/8/2021	Pass	
Biuret	%	22241-2 Annex E	<0.3	0.15	MDC	9/9/2021	Pass	
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	9/8/2021	Pass	
Insolubles	mg/kg	22241-2 Annex G	<20	3.0	ALB	9/7/2021	Pass	
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.35	SPT	9/7/2021	Pass	
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/7/2021	Pass	
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/7/2021	Pass	
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/7/2021	Pass	
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/7/2021	Pass	
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/7/2021	Pass	
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/7/2021	Pass	
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/7/2021	Pass	
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/7/2021	Pass	
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/7/2021	Pass	
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/7/2021	Pass	
Miscellaneous Secondary Unregulated Quality Standards								

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Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	9/7/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0903	ALB	9/9/2021	

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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Date: 9/9/2021

Certification Approval ___________ 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	9/14/2021



Enalytic ID	E2109014-001
Batch Number	309032021M
Train Number	GATX200967
Sample ID	DEF 32.4%
Date Sampled	9/3/2021
Date Received	9/9/2021
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.4% DEF Batch# 309032021M Train# GATX200967

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/	
		Method (ISO) ¹	Limit ²			Date	Fail	
Urea Content ³	wt%	22241-2 Annex C	31.8-33.4	32.5	SPT	9/14/2021	Pass	
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3830	ALB	9/10/2021	Pass	
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.07	MDC	9/10/2021	Pass	
Biuret	%	22241-2 Annex E	<0.3	0.14	MDC	9/13/2021	Pass	
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	9/10/2021	Pass	
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	9/10/2021	Pass	
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	9/13/2021	Pass	
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass	
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass	
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass	
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass	
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass	
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass	
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass	
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass	
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass	
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass	
Miscellaneous Secondary Unregulated Quality Standards								

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Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	9/13/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0898	ALB	9/10/2021	

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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.

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Date: 9/14/2021

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	9/14/2021



Enalytic ID	E2109014-002
Batch Number	309072021L
Train Number	GATX222492
Sample ID	DEF 32.5%
Date Sampled	9/7/2021
Date Received	9/9/2021
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.5% DEF Batch# 309072021L Train# GATX222492

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content ³	wt%	22241-2 Annex C	31.8-33.4	32.3	SPT	9/14/2021	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3826	ALB	9/10/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	MDC	9/10/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.10	MDC	9/13/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	9/10/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	9/10/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	9/13/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass

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Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	9/13/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0893	ALB	9/10/2021	

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Date: 9/14/2021

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	9/15/2021



Enalytic ID	E2109015-001
Batch Number	309092021M
Train Number	SHPX200930
Sample ID	DEF 32.5%
Date Sampled	9/9/2021
Date Received	9/10/2021
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.5% DEF Batch# 309092021M Train# SHPX200930

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content ³	wt%	22241-2 Annex C	31.8-33.4	32.5	SPT	9/14/2021	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3829	ALB	9/10/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.09	MDC	9/14/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	MDC	9/13/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	9/10/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	9/10/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	9/13/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/13/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/13/2021	Pass

Misce	llaneous S	econdary	Unregulated	Quality	Standard	S

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	9/13/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0893	ALB	9/10/2021	

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Date: 9/15/2021

Laboratory Director: Anthony J Scala

Certification Approval

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	9/17/2021



Enalytic ID	E2109023-001
Batch Number	309102021M
Train Number	GATX222477
Sample ID	DEF 32.1%
Date Sampled	9/10/2021
Date Received	9/13/2021
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.1% DEF Batch# 309102021M Train# GATX222477

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content ³	wt%	22241-2 Annex C	31.8-33.4	32.2	SPT	9/16/2021	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3825	ALB	9/13/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.03	MDC	9/15/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.14	ALB	9/15/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	9/15/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	ALB	9/14/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	9/17/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/17/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/17/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/17/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/17/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass
	Mi	scellaneous Seco	ondary Unregula	ated Qualit	v Standards		

	IVIIS	scellaneous S	eco	nuar	y Onregula	aled Qualit	y Standards	
3								

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	9/13/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0899	ALB	9/13/2021	

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Date: 9/17/2021

Certification Approval

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	9/17/2021



Enalytic ID	E2109024-001
Batch Number	309102021M2
Train Number	TILX265222
Sample ID	DEF 32.0%
Date Sampled	9/10/2021
Date Received	9/13/2021
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.0% DEF Batch# 309102021M2 Train# TILX265222

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content ³	wt%	22241-2 Annex C	31.8-33.4	32.4	SPT	9/16/2021	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3828	ALB	9/13/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.03	MDC	9/15/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.14	ALB	9/15/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	9/16/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	ALB	9/14/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	9/17/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/17/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/17/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/17/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	9/17/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	9/17/2021	Pass

Missenaries secondary officigation quarky standards							
y by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	9/13/2021	

Not Applicable

1.0904

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g/cm³

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3675

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Date: 9/17/2021

ALB

Laboratory Director: Anthony J Scala

Certification Approval

Identify

Density @ 20degC

Enalytic DUNS Reg. Number: 02-636-0096

Page 1 of 1

9/13/2021



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	10/8/2021



Enalytic ID	E2110003-001
Batch Number	309232021M
Train Number	UTLX647950
Sample ID	DEF 32.4%
Date Sampled	9/23/2021
Date Received	9/30/2021
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.4% DEF Batch# 309232021M Train# UTLX647950

wt% N _D ²⁰	Method (ISO) ¹ 22241-2 Annex C	Limit ²			Data	
	22241-2 Annex C				Date	Fail
N_{D}^{20}		31.8-33.4	32.8	SPT	10/8/2021	Pass
D	22241-2 Annex C	1.3814-1.3843	1.3828	ALB	9/28/2021	Pass
%	22241-2 Annex D	<0.2	0.10	ALB	10/6/2021	Pass
%	22241-2 Annex E	<0.3	0.15	MDC	10/7/2021	Pass
mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	10/6/2021	Pass
mg/kg	22241-2 Annex G	<20	<2.0	ALB	10/6/2021	Pass
mg/kg	22241-2 Annex I	<0.5	0.37	SPT	10/5/2021	Pass
mg/kg	22241-2 Annex I	<0.5	0.11	SPT	10/5/2021	Pass
mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/5/2021	Pass
mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	10/5/2021	Pass
mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	10/5/2021	Pass
mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	10/5/2021	Pass
mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	10/5/2021	Pass
mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/5/2021	Pass
mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/5/2021	Pass
mg/kg	22241-2 Annex I	<0.5	0.08	SPT	10/5/2021	Pass
mg/kg	22241-2 Annex I	<0.5	0.09	SPT	10/5/2021	Pass
	mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg	mg/kg 22241-2 Annex F mg/kg 22241-2 Annex G mg/kg 22241-2 Annex I mg/kg 22241-2 Annex I	mg/kg 22241-2 Annex F <5.0	mg/kg 22241-2 Annex F <5.0	mg/kg 22241-2 Annex F <5.0 <1.0 MDC mg/kg 22241-2 Annex G <20	mg/kg 22241-2 Annex F <5.0 <1.0 MDC 10/6/2021 mg/kg 22241-2 Annex G <20

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	10/6/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0908	ALB	10/6/2021	

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.

Note 4: The Refractive Index result was taken from report E2109041-001, which has the same ID.

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

Enalytic DUNS Reg. Number: 02-636-0096

Date: 10/8/2021



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	10/4/2021



Enalytic ID	E2109046-001
Batch Number	309272021M
Train Number	UTLX647886
Sample ID	DEF 32.4%
Date Sampled	9/27/2021
Date Received	9/29/2021
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.4% DEF Batch# 309272021M Train# UTLX647886

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content ³	wt%	22241-2 Annex C	31.8-33.4	32.5	SPT	10/4/2021	Pass
Refractive Index @ 20degc	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3829	ALB	9/29/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.11	ALB	9/29/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.13	MDC	9/30/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	9/29/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	ALB	9/29/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	10/1/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/1/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/1/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	10/1/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	10/1/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	10/1/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	10/1/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/1/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/1/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/1/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/1/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							

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Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	9/29/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0898	ALB	9/29/2021	

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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Date: 10/4/2021

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	10/4/2021



Enalytic ID	E2109050-001
Batch Number	309292021L
Train Number	TILX265184
Sample ID	DEF 32.5%
Date Sampled	9/29/2021
Date Received	9/30/2021
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch# 309292021L Train# TILX265184

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content ³	wt%	22241-2 Annex C	31.8-33.4	32.2	SPT	10/4/2021	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3824	ALB	9/30/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.03	ALB	10/1/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.14	ALB	10/1/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	9/30/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	ALB	9/30/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	10/1/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.12	SPT	10/1/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/1/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	10/1/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	10/1/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.02	SPT	10/1/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	10/1/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/1/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/1/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/1/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	10/1/2021	Pass
	•	scellaneous Sec				102021	

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Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	9/30/2021				
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0898	ALB	9/30/2021				

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Date: 10/4/2021

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