

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

Phone:

315 437 0255

Enalytic ID	E2102013-001
Batch Number	302022021M
Train Number	TILX265187
Sample ID	DEF 32.4%
Date Sampled	2/2/2021
Date Received	2/8/2021
Report Date	2/10/2021

Certificate of Analysis Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.4% DEF Batch# 302022021M Train# TILX265187

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.8	SPT	2/10/2021	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3834	AEC	2/8/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	AEC	2/8/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.10	AEC	2/9/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	AEC	2/9/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	AEC	2/8/2021	Pass
Phosphate as P by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	PEN	2/10/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.08	PEN	2/10/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	SPT	2/9/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0918	AEC	2/8/2021	

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.

"The undersigned certifies that the value(s) reported have met the highest analytical quality control standards."

Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 2/10/2021



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Enalytic ID	E2102013-002
Batch Number	302032021M
Train Number	TILX265190
Sample ID	DEF 32.3%
Date Sampled	2/3/2021
Date Received	2/8/2021
Report Date	2/10/2021

Certificate of Analysis Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.3% DEF Batch# 302032021M Train# TILX265190

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.6	SPT	2/10/2021	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3830	AEC	2/8/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.03	AEC	2/8/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.11	AEC	2/9/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	AEC	2/9/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	AEC	2/8/2021	Pass
Phosphate as P by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	PEN	2/10/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.07	PEN	2/10/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.08	PEN	2/10/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	SPT	2/9/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0908	AEC	2/8/2021	

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

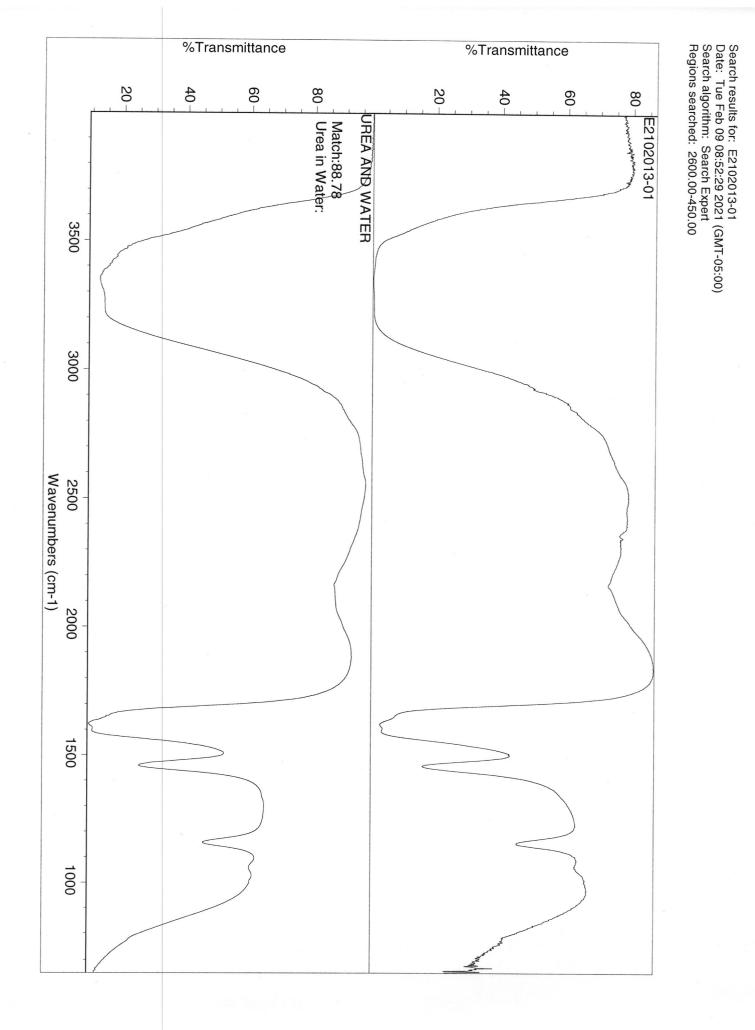
Note 2: The acceptable values are based on the standard 32.5% unless otherwise stated, and are less than or equal to the values shown.

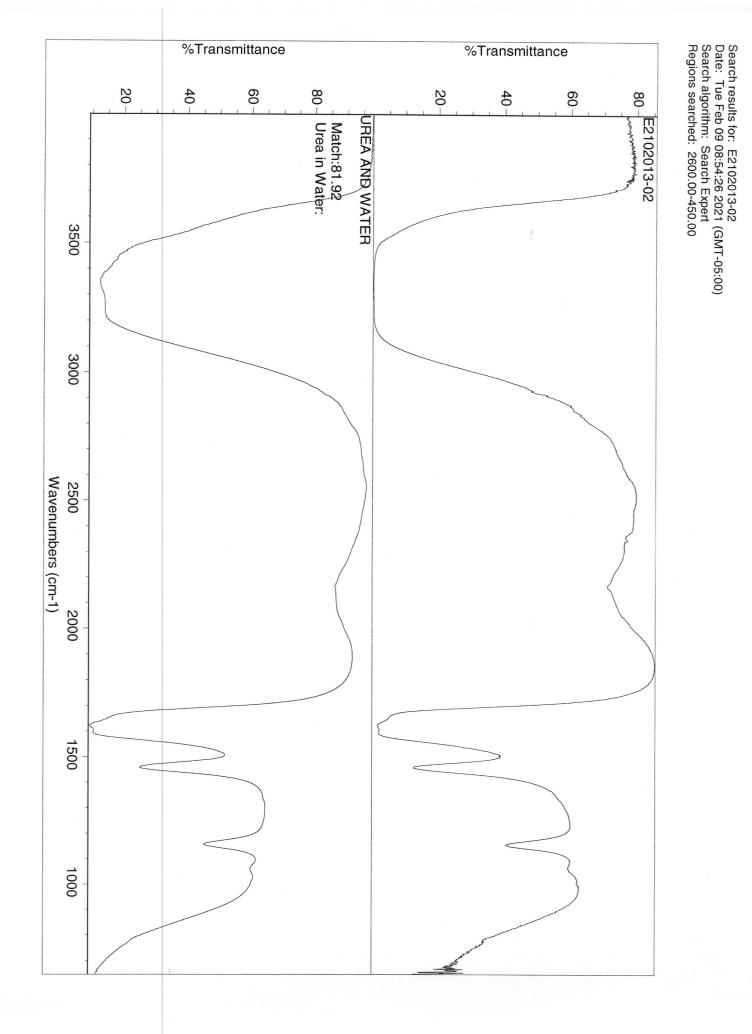
"The undersigned certifies that the value(s) reported have met the highest analytical quality control standards."

Certification Approval ______ Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 2/10/2021





enalytic **Chain of Custody Record** Analytical Testing Laboratories 6034 Corporate Drive, East Syracuse, NY 13057 Phone: 315.437.0255 Fax: 315.437.1209 Quote Number: liont Number DEF Products, LLC ISO 22241 DEF Testing Remarks hone # ocation (City/State) of Containers Sharon Steamuller 422 E. Barioni Blvd., Imperial CA (760) 355-7997 Product Testing Grab or Lab Internal Use Only Certificate of Analysis Sample ID Date Time Matrix Comp E2102013 1 2 3 4 5 6 7 8 9 10 Batch # 302022021M 2/2/2021 N/A Liquid Comp x x x x x x x x x x x x -001 2 Train # TILX 265187 PERCENT DEF 32.4% Batch # 302032021M 2/3/2021 NA Liquid Comp 2 -002 x x x x x x x xx XX Train # TILX 265190 PERCENT DEF 32.3% Parameter and Method Sample bottle: Type Size Preservative Sampled by (Print) Name of Courier 1 Urea Content Plastic 500 mL None FedEx Express 2 Refractive Index @ 20degC Company: DEF Products, LLC 3 Density @ 20degC Relinguished by:(sign) Date Time Received by: (sign) 4 Alkalinity (as NH3) 5 Biuret **DEF Products, LLC** 6 Aldehydes Relinguished by:(sign) Date Time Received by: (sign) 7 Insolubles 8 Phosphate 9 Total Metals: Al,Ca,Cr,Cu,Fe,K,Mg,Ni,Na,Zn. Relinguished by:(sign) Date Time Rec'd for Lab by: 10 FTIR 2-8-8:56 < the Im 2021



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Enalytic ID	E2102013-001
Batch Number	302022021M
Train Number	TILX265187
Sample ID	DEF 32.4%
Date Sampled	2/2/2021
Date Received	2/8/2021
Report Date	2/10/2021

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.4% DEF Batch# 302022021M Train# TILX265187

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.8	SPT	2/10/2021	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3834	AEC	2/8/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	AEC	2/8/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.10	AEC	2/9/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	AEC	2/9/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	AEC	2/8/2021	Pass
Phosphate as P by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	PEN	2/10/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.08	PEN	2/10/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	SPT	2/9/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0918	AEC	2/8/2021	

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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.

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Certification Approval ______ Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 2/10/2021

Page 1 of 1



Client:	DEF Products, LLC
Contact	Sharon Stegmuller
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Enalytic ID	E2102013-002
Batch Number	302032021M
Train Number	TILX265190
Sample ID	DEF 32.3%
Date Sampled	2/3/2021
Date Received	2/8/2021
Report Date	2/10/2021

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.3% DEF Batch# 302032021M Train# TILX265190

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.6	SPT	2/10/2021	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3830	AEC	2/8/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.03	AEC	2/8/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.11	AEC	2/9/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	AEC	2/9/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	AEC	2/8/2021	Pass
Phosphate as P by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	PEN	2/10/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.07	PEN	2/10/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.08	PEN	2/10/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/10/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/10/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	SPT	2/9/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0908	AEC	2/8/2021	

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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.

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Certification Approval ______ Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 2/10/2021

Page 1 of 1



Client:	DEF Products, LLC
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Address	422 East Barioni Blvd
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Phone	760 355 7997

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Enalytic ID	E2102024-001
Batch Number	302052021M
Train Number	TILX264956
Sample ID	DEF 32.5%
Date Sampled	2/5/2021
Date Received	2/12/2021
Report Date	2/17/2021

Certificate of Analysis Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch# 302052021M Train# TILX264956

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.4	SPT	2/16/2021	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3828	AEC	2/15/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.03	AEC	2/15/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	AEC	2/15/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	AEC	2/12/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	AEC	2/15/2021	Pass
Phosphate as P by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	PEN	2/16/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/16/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/16/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/16/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/16/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.06	PEN	2/16/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/16/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/16/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/16/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/16/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/16/2021	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	AEC	2/15/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0903	AEC	2/15/2021	

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Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 2/17/2021



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Enalytic ID	E2102024-002
Batch Number	302102021M
Train Number	TILX264946
Sample ID	DEF 32.5%
Date Sampled	2/10/2021
Date Received	2/12/2021
Report Date	2/17/2021

Certificate of Analysis Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.5% DEF Batch# 302102021M Train# TILX264946

Test Parameter/Method	Units	Test	Acceptable	Results	Chemist	Analysis	Pass/
		Method (ISO) ¹	Limit ²			Date	Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.3	SPT	2/16/2021	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3826	AEC	2/15/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.03	AEC	2/15/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	AEC	2/15/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	AEC	2/12/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	AEC	2/15/2021	Pass
Phosphate as P by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	PEN	2/16/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/16/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/16/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/16/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/16/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.06	PEN	2/16/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/16/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/16/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/16/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/16/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.10	PEN	2/16/2021	Pass
	Misc	ellaneous Secon	dary Unregulate	ed Quality Star	ndards		
Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	AEC	2/15/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0898	AEC	2/15/2021	

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Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 2/17/2021



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Address	422 East Barioni Blvd
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Email	defproducts@gmail.com
Phone	760 355 7997
Report Date	3/1/2021



Enalytic ID	E2102044-001
Batch Number	302122021L
Train Number	TILX265570
Sample ID	DEF 32.3%
Date Sampled	2/12/2021
Date Received	2/25/2021
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.3% DEF Batch# 302122021L Train# TILX265570

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	ALB	3/1/2021	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3828	ALB	3/1/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.03	ALB	3/1/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.11	ALB	3/1/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	3/1/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	SPT	2/26/2021	Pass
Phosphate as P by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/26/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/26/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/26/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/26/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/26/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/26/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	2/26/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/26/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/26/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/26/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	2/26/2021	Pass

Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	3/1/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0898	ALB	3/1/2021	

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.

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.

Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

Date: 3/1/2021



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	3/4/2021



Enalytic ID	E2103008-001
Batch Number	302262021M
Train Number	TILX23252
Sample ID	DEF 32.6%
Date Sampled	2/26/2021
Date Received	3/2/2021
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241 Client ID: 32.6% DEF Batch# 302262021M Train# TILX23252

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	3/3/2021	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3830	ALB	3/2/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.07	ALB	3/3/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	ALB	3/2/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	ALB	3/3/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	ALB	3/2/2021	Pass
Phosphate as P by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	3/3/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	3/3/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	3/3/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	3/3/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	3/3/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.05	PEN	3/3/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	3/3/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	3/3/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	3/3/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	3/3/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	3/3/2021	Pass
	Mi	scellaneous Seco	ondary Unregula	ated Qualit	y Standards		
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	3/2/2021	

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

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Certification Approval

Date: 3/4/2021

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096