

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

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 12/13/2022



Enalytic ID	E2212014-001
Batch Number	312052022M
Train Number	Tank 13 & 9
Sample ID	DEF 32.6%
Date Sampled	12/5/2022
Date Received	12/9/2022
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.6% DEF Batch # 312052022M Train # Tank 13 & 9

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	32.5	SPT	12/13/2022	Pass		
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3830	MFB	12/12/2022	Pass		
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.05	MDC	12/12/2022	Pass		
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	12/12/2022	Pass		
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	12/9/2022	Pass		
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MFB	12/9/2022	Pass		
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/12/2022	Pass		
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/12/2022	Pass		
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/12/2022	Pass		
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/12/2022	Pass		
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/12/2022	Pass		
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/12/2022	Pass		
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/12/2022	Pass		
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.30	DSD	12/12/2022	Pass		
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.054	DSD	12/12/2022	Pass		
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/12/2022	Pass		
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/12/2022	Pass		
Miscellaneous Secondary Unregulated Quality Standards									
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MFB	12/12/2022			
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0908	MFB	12/12/2022			

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

Date: 12/13/2022



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Report Date 12/13/2022



Enalytic ID	E2212015-001
Batch Number	312072022L
Train Number	TILX264870
Sample ID	DEF 32.7%
Date Sampled	12/7/2022
Date Received	12/9/2022
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.7% DEF Batch # 312072022L Train # TILX264870

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	12/13/2022	Pass	
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3827	MFB	12/12/2022	Pass	
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.06	MDC	12/12/2022	Pass	
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	12/12/2022	Pass	
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	12/9/2022	Pass	
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MFB	12/9/2022	Pass	
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/12/2022	Pass	
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.071	DSD	12/12/2022	Pass	
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/12/2022	Pass	
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/12/2022	Pass	
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/12/2022	Pass	
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/12/2022	Pass	
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/12/2022	Pass	
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.28	DSD	12/12/2022	Pass	
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/12/2022	Pass	
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/12/2022	Pass	
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/12/2022	Pass	
Miscellaneous Secondary Unregulated Quality Standards								
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MFB	12/12/2022		
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0908	MFB	12/12/2022		

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Enalytic DUNS Reg. Number: 02-636-0096

Date: 12/13/2022



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

** Amended **



Enalytic ID	E2212030-001
Batch Number	312142022M
Train Number	TILX264878
Sample ID	DEF 32.5%
Date Sampled	12/14/2022
Date Received	12/16/2022
ISO 17025	Certificate Number: AT-2956

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 12/21/2022

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 312142022M Train # TILX264878

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	32.1	SPT	12/21/2022	Pass	
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3824	MFB	12/20/2022	Pass	
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.06	MDC	12/20/2022	Pass	
Biuret	%	22241-2 Annex E	<0.3	0.18	MDC	12/19/2022	Pass	
Aldehyde	mg/kg	22241-2 Annex F	<5.0	2.7	MFB	12/19/2022	Pass	
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	12/19/2022	Pass	
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/21/2022	Pass	
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/21/2022	Pass	
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/21/2022	Pass	
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/21/2022	Pass	
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/21/2022	Pass	
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/21/2022	Pass	
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/21/2022	Pass	
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	DSD	12/21/2022	Pass	
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	DSD	12/21/2022	Pass	
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.059	DSD	12/21/2022	Pass	
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	DSD	12/21/2022	Pass	
Miscellaneous Secondary Unregulated Quality Standards								
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	12/21/2022		
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0908	MFB	12/20/2022		

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

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Note 3: ISO 17025 accreditation not applied for.

Note 4: Report has been Amended to correct the Batch Number and Date Sampled.

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Certification Approval

Laboratory Director: Anthony J Scala

Enalytic DUNS Reg. Number: 02-636-0096

12/22/2022

Date:



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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 1/4/2023



Enalytic ID	E2212071-001
Batch Number	312202022M
Train Number	TILX265231
Sample ID	DEF 32.5%
Date Sampled	12/20/2022
Date Received	12/30/2022
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 312202022M Train # TILX265231

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	1/4/2023	Pass		
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3826	MDC	1/3/2023	Pass		
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	MDC	1/4/2023	Pass		
Biuret	%	22241-2 Annex E	<0.3	0.14	MDC	1/3/2023	Pass		
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	1/3/2023	Pass		
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	1/3/2023	Pass		
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	1/4/2023	Pass		
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	1/4/2023	Pass		
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	1/4/2023	Pass		
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	1/4/2023	Pass		
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	1/4/2023	Pass		
Miscellaneous Secondary Unregulated Quality Standards									
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	1/3/2023			
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0908	MFB	1/4/2023	-		

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Date: 1/4/2023



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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 1/4/2023



Enalytic ID	E2212071-002
Batch Number	312212022M
Train Number	TILX265531
Sample ID	DEF 32.5%
Date Sampled	12/21/2022
Date Received	12/30/2022
ISO 17025	Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 312212022M Train # TILX265531

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	1/4/2023	Pass		
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3827	MDC	1/3/2023	Pass		
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.02	MDC	1/4/2023	Pass		
Biuret	%	22241-2 Annex E	<0.3	0.14	MDC	1/3/2023	Pass		
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	1/3/2023	Pass		
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	1/3/2023	Pass		
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.024	SPT	1/4/2023	Pass		
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	1/4/2023	Pass		
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	1/4/2023	Pass		
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	1/4/2023	Pass		
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	1/4/2023	Pass		
Miscellaneous Secondary Unregulated Quality Standards									
Identify by FTIR (attached)3	Spectra	22241-2 Annex J	Control Match	Match	MDC	1/3/2023			
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0908	MFB	1/4/2023			

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Enalytic DUNS Reg. Number: 02-636-0096

Date:

1/4/2023



Report Date 1/4/2023

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



 Enalytic ID
 E2212071-003

 Batch Number
 312272022L

 Train Number
 TCBX231041

 Sample ID
 DEF 32.5%

 Date Sampled
 12/27/2022

 Date Received
 12/30/2022

 ISO 17025
 Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch # 312272022L Train # TCBX231041

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	1/4/2023	Pass		
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3826	MDC	1/3/2023	Pass		
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.05	MDC	1/4/2023	Pass		
Biuret	%	22241-2 Annex E	<0.3	0.16	MDC	1/3/2023	Pass		
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	1/3/2023	Pass		
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	1/3/2023	Pass		
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	1/4/2023	Pass		
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	1/4/2023	Pass		
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	1/4/2023	Pass		
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	SPT	1/4/2023	Pass		
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	SPT	1/4/2023	Pass		
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	SPT	1/4/2023	Pass		
Miscellaneous Secondary Unregulated Quality Standards									
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	1/3/2023			
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0908	MFB	1/4/2023	-		

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