

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

Enalytic ID	E1909014-001
Batch Number	309052019
Train Number	TILX264889
Sample ID	DEF 32.5%
Date Sampled	9/5/2019
Date Received	9/9/2019
Report Date	9/12/2019

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: **32.5% DEF** Batch# **309052019** Train# **TILX264889**

Test Parameter/Method	Units	Test Method (ISO) ¹	Acceptable Limit ^{2,3}	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	(31.6-33.4)	33.4	BDK	9/11/2019	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3842	CND	9/11/2019	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.04	CND	9/12/2019	Pass
Biuret	%	22241-2 Annex E	<0.3	0.18	CND	9/10/2019	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	BDK	9/12/2019	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	CND	9/12/2019	Pass
Phosphate	mg/kg	22241-2 Annex H	<0.5	<0.25	BDK	9/11/2019	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/11/2019	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/11/2019	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/11/2019	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/11/2019	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/11/2019	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/11/2019	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.02	CLB	9/11/2019	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/11/2019	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.09	CLB	9/11/2019	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/11/2019	Pass

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	BDK	9/11/2019	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0930	CND	9/10/2019	---

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: The API's Expanded Range Acceptable Limit for Urea Content is shown in parentheses

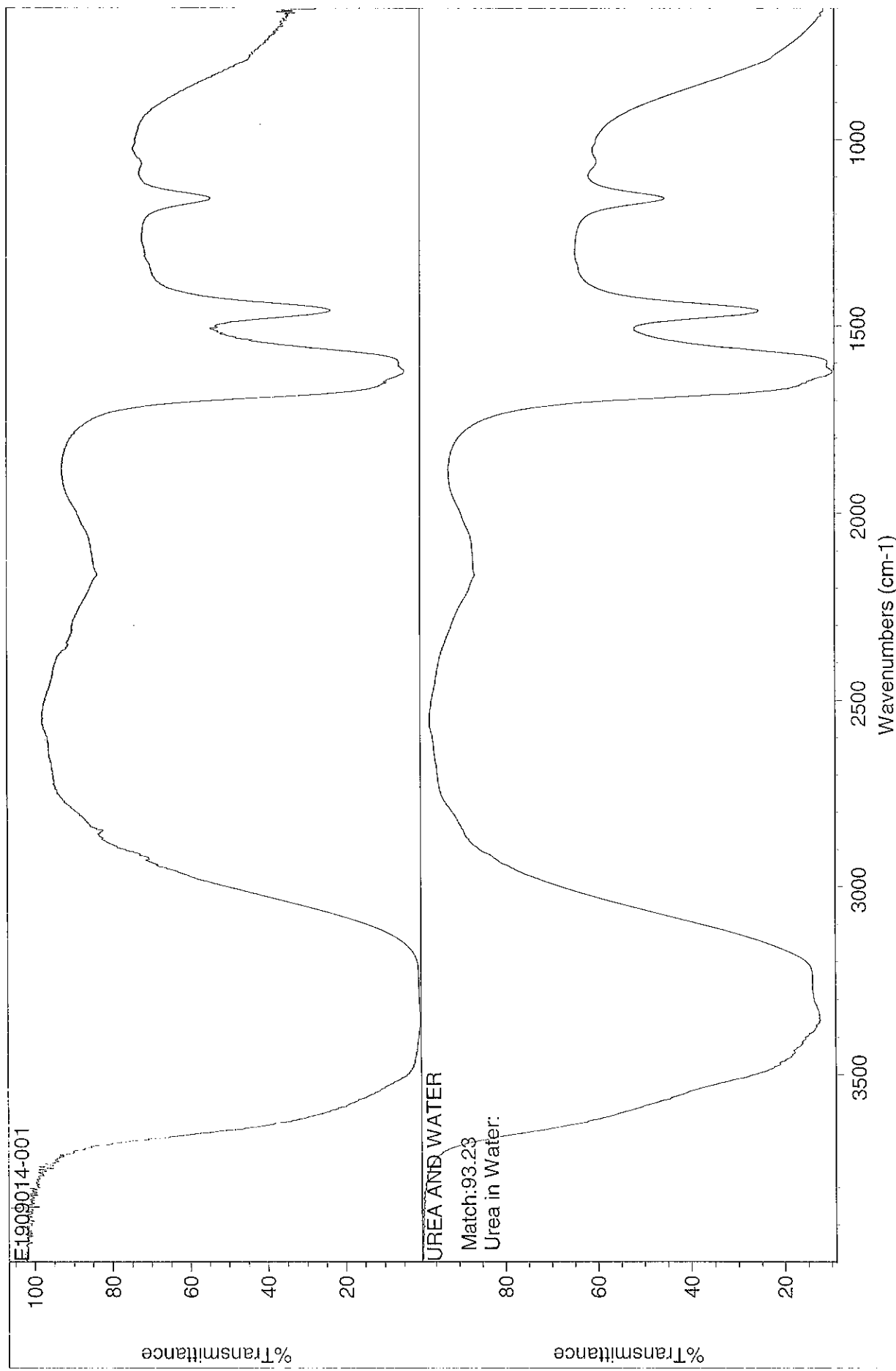
"The undersigned certifies that the value(s) reported have met the highest analytical quality control standards."

Certification Approval

Laboratory Director: Anthony J Scala

Date: 9/12/2019

Search results for: E1909014-001
Date: Wed Sep 11 10:35:40 2019 (GMT-04:00)
Search algorithm: Search Expert
Regions searched: 2600.00-450.00



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

Enalytic ID	E1909014-002
Batch Number	309062019
Train Number	GATX220499
Sample ID	DEF 32.5%
Date Sampled	9/6/2019
Date Received	9/9/2019
Report Date	9/12/2019

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch# 309062019 Train# GATX220499

Test Parameter/Method	Units	Test Method (ISO) ¹	Acceptable Limit ^{2,3}	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	(31.6-33.4)	33.4	BDK	9/11/2019	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3842	CND	9/11/2019	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.04	CND	9/12/2019	Pass
Biuret	%	22241-2 Annex E	<0.3	0.16	CND	9/10/2019	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	BDK	9/12/2019	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	CND	9/12/2019	Pass
Phosphate	mg/kg	22241-2 Annex H	<0.5	<0.25	BDK	9/11/2019	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/11/2019	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/11/2019	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/11/2019	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/11/2019	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/11/2019	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/11/2019	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.02	CLB	9/11/2019	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/11/2019	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.05	CLB	9/11/2019	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/11/2019	Pass

Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	BDK	9/11/2019	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0935	CND	9/10/2019	---

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: The API's Expanded Range Acceptable Limit for Urea Content is shown in parentheses

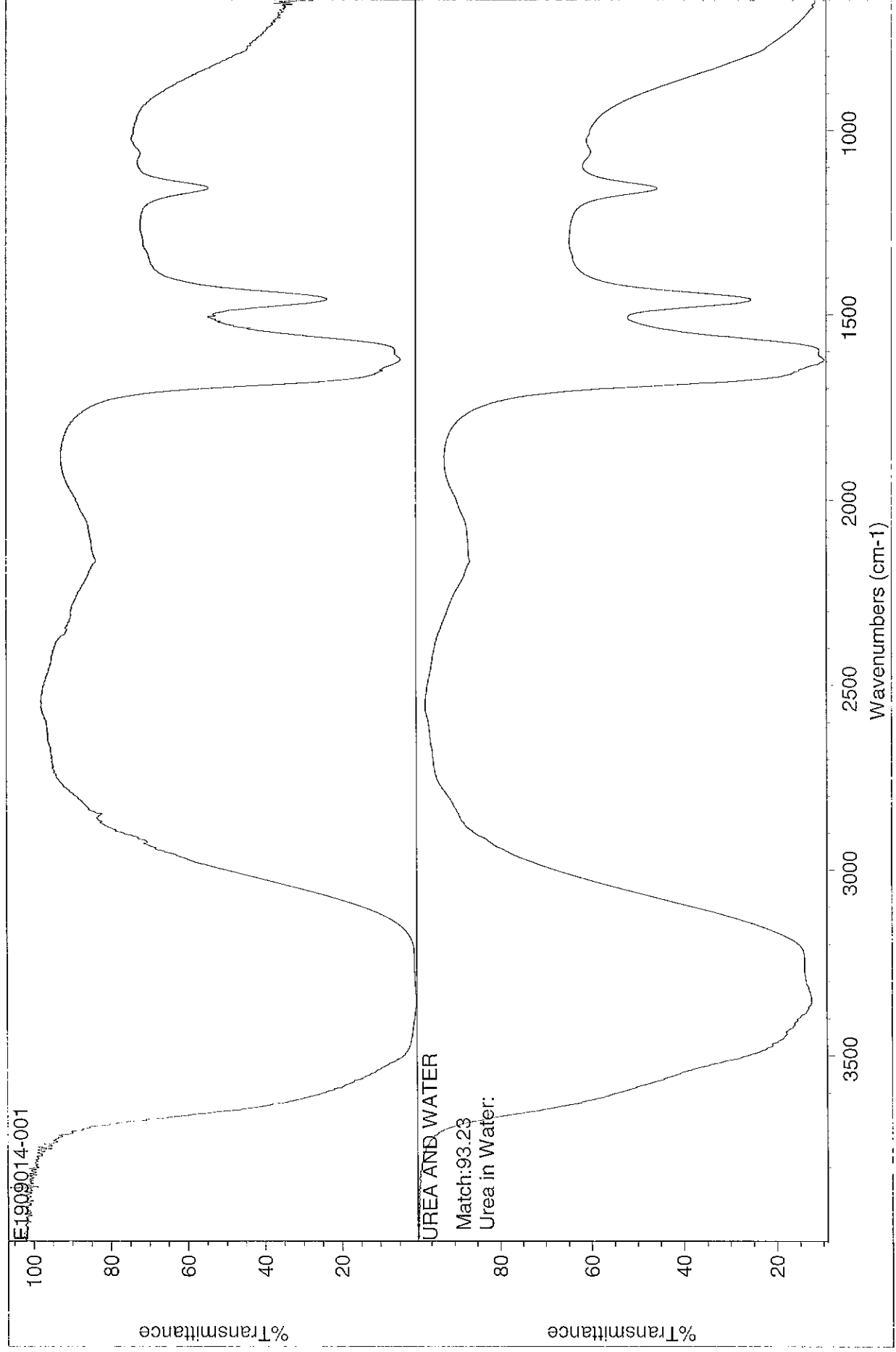
"The undersigned certifies that the value(s) reported have met the highest analytical quality control standards."

Certification Approval

Laboratory Director: Anthony J Scala

Date: 9/12/2019

Search results for: E1909014-001
Date: Wed Sep 11 10:35:40 2019 (GMT-04:00)
Search algorithm: Search Expert
Regions searched: 2600.00-450.00



Enalytic, LLC

Analytical Testing Laboratory
6034 Corporate Drive, East Syracuse, NY 13057
Client: DEF Products, LLC

Phone: 315.437.0255 Fax: 315.437.1209
Project #/ Project Name

DEF Products, LLC		ISO 22241 DEF Testing		Number of Containers										Remarks			
Client Contact:	Phone #	Date	Time	Matrix	Grab or Comp	Lab Internal Use Only	Product Testing Certificate of Analysis										
Sharon Stegmuller		(760) 355-7997	422 E. Barioni Blvd., Imperial CA														
Sample ID						E1909014	1	2	3	4	5	6	7	8	9	10	Product Testing Certificate of Analysis
Batch # 309052019		9/5/2019	N/A	Liquid	Comp	-001	2	X	X	X	X	X	X	X	X	X	
Train # TILX264889																	
Percent DEF 32.5%																	
Batch # 309062019		9/6/2019	N/A	Liquid	Comp	-002	2	X	X	X	X	X	X	X	X	X	
Train # GATX220499																	
Percent DEF 32.5%																	
Parameter and Method	Sample bottle:	Type	Size	Preservative	Sampled by (Print)												Name of Courier
1 Urea Content		2 - HDPE	500 ml	None	Client DEF Products, LLC												FedEx Standard Overnight
2 Refractive Index @ 20degC					Company: DEF Products, LLC												8145 8339 2740
3 Density @ 20degC					Relinquished by: (sign) Liliana Estrada												Received by: (sign)
4 Alkalinity (as NH3)					DEF Products, LLC												Date 9/6/19 Time 4:14 PM
5 Biuret					Relinquished by: (sign)												Date Time
6 Aldehydes																	Received by: (sign)
7 Insolubles																	
8 Phosphate																	
9 Total Metals: Al, Ca, Cr, Cu, Fe, K, Mg, Ni, Na, Zn.					Relinquished by: (sign)												Date 9/9/19 Time 8:35 AM
10 FTIR																	Rec'd for Lab by: CAROLE SCALA ENALYTIC, LLC

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

Enalytic ID	E1909023-001
Batch Number	309092019P
Train Number	GATX224309
Sample ID	DEF 32.5%
Date Sampled	9/9/2019
Date Received	9/11/2019
Report Date	9/16/2019

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch# 309092019P Train# GATX224309

Test Parameter/Method	Units	Test Method (ISO) ¹	Acceptable Limit ^{2,3}	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	(31.6-33.4)	33.4	BDK	9/16/2019	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3841	CND	9/16/2019	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	<0.01	CND	9/12/2019	Pass
Biuret	%	22241-2 Annex E	<0.3	0.13	BDK	9/13/2019	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	BDK	9/12/2019	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	CND	9/12/2019	Pass
Phosphate	mg/kg	22241-2 Annex H	<0.5	<0.25	BDK	9/13/2019	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/16/2019	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/16/2019	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/16/2019	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/16/2019	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/16/2019	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/16/2019	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/16/2019	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/16/2019	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/16/2019	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/16/2019	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	BDK	9/16/2019	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0950	CND	9/16/2019	---

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: The API's Expanded Range Acceptable Limit for Urea Content is shown in parentheses

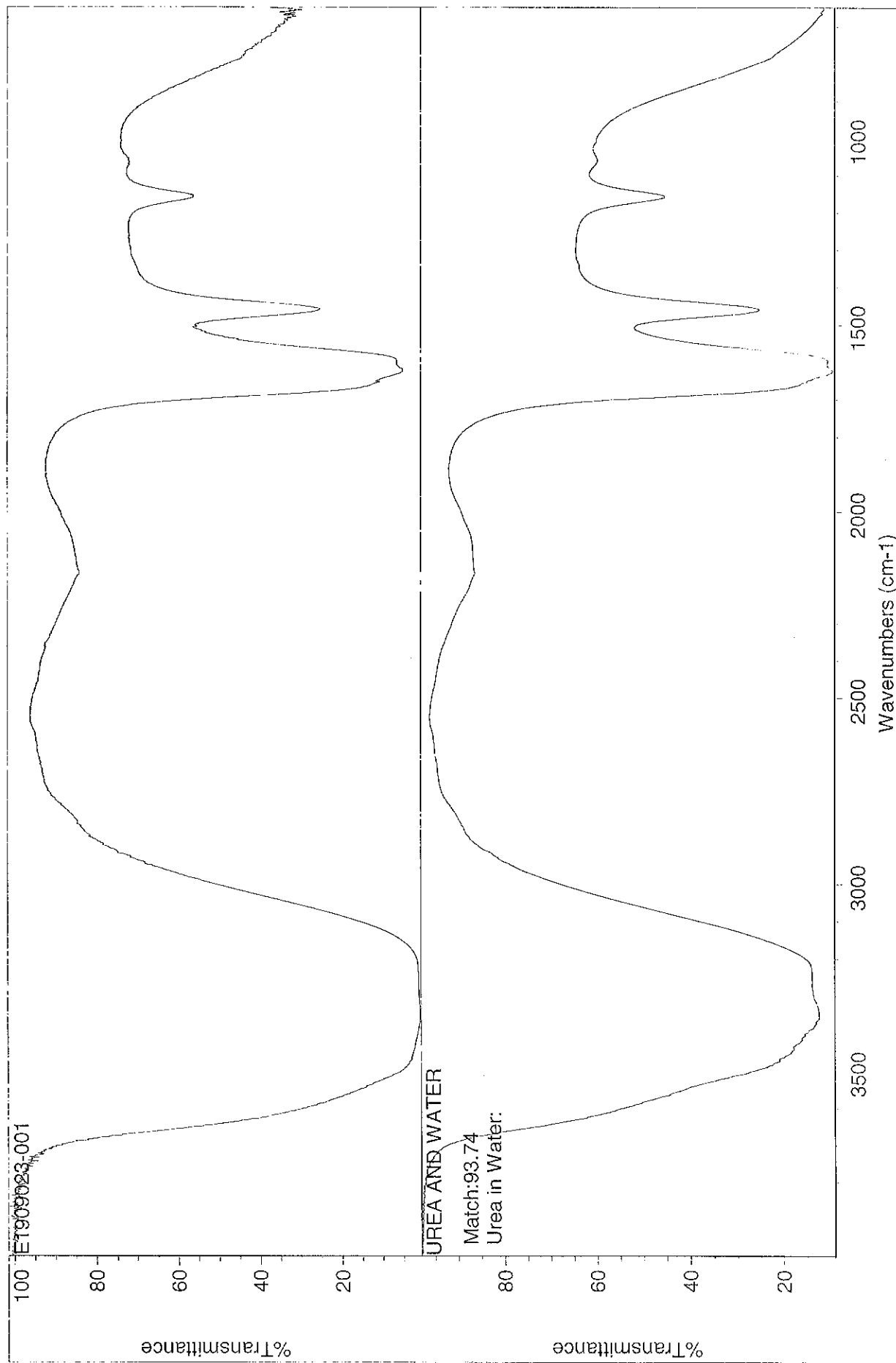
"The undersigned certifies that the value(s) reported have met the highest analytical quality control standards."

Certification Approval

Laboratory Director: Anthony J Scala

Date: 9/16/2019

Search results for: E1909023-001
Date: Mon Sep 16 12:35:49 2019 (GMT-04:00)
Search algorithm: Search Expert
Regions searched: 2600.00-450.00



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

Enalytic ID	E1909046-001
Batch Number	309172019M
Train Number	UTLX647898
Sample ID	DEF 32.5%
Date Sampled	9/17/2019
Date Received	9/18/2019
Report Date	9/24/2019

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch# 309172019M Train# UTLX647898

Test Parameter/Method	Units	Test Method (ISO) ¹	Acceptable Limit ²	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.7	BDK	9/23/2019	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3832	CND	9/19/2019	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	<0.01	BDK	9/23/2019	Pass
Biuret	%	22241-2 Annex E	<0.3	0.19	BDK	9/23/2019	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	BDK	9/23/2019	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	BDK	9/23/2019	Pass
Phosphate	mg/kg	22241-2 Annex H	<0.5	<0.25	BDK	9/24/2019	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/23/2019	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/23/2019	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/23/2019	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/23/2019	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/23/2019	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/23/2019	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/23/2019	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/23/2019	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.07	CLB	9/23/2019	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/23/2019	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	BDK	9/20/2019	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0905	CND	9/19/2019	---

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

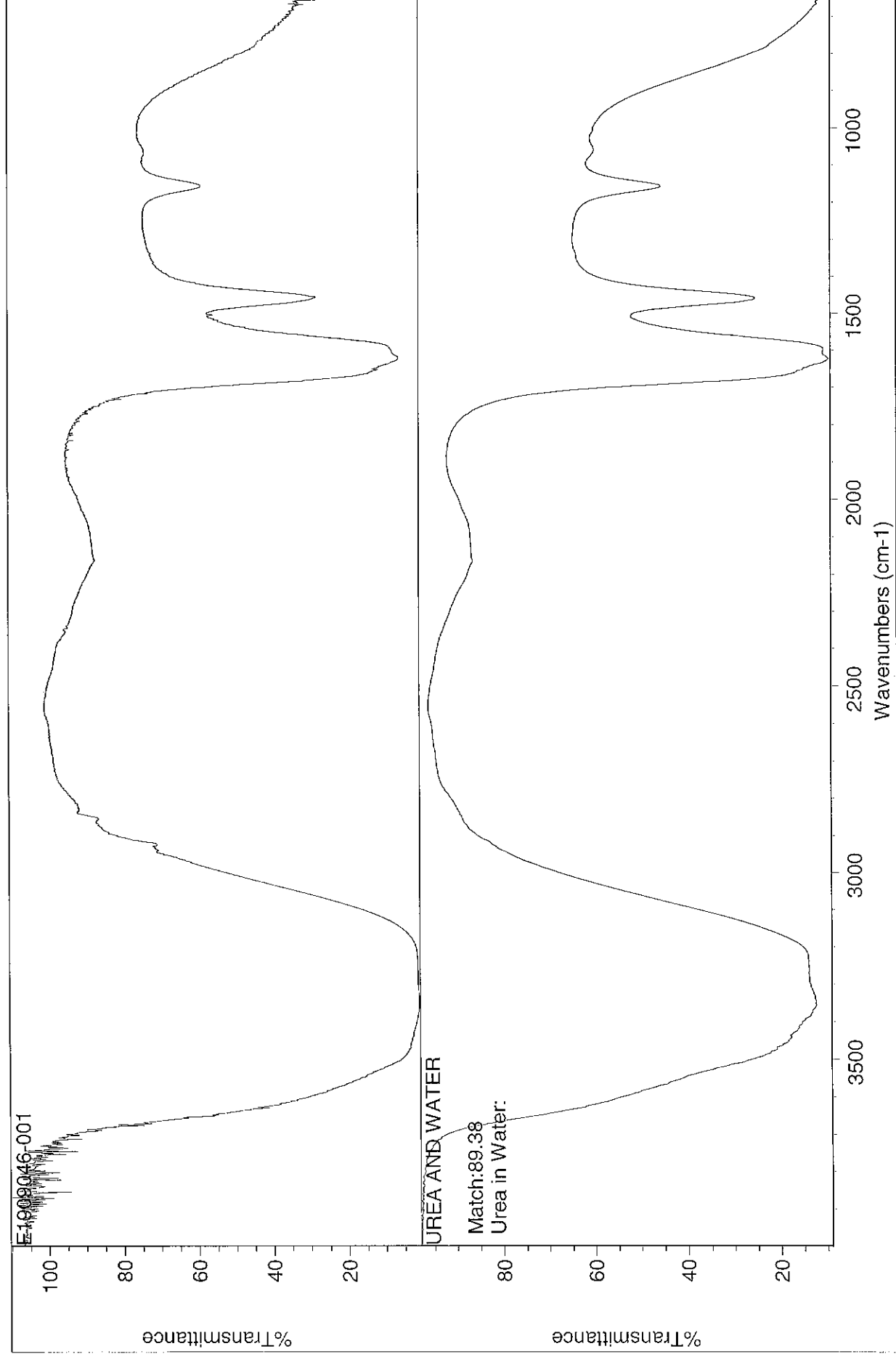
"The undersigned certifies that the value(s) reported have met the highest analytical quality control standards."

Certification Approval

Laboratory Director: Anthony J Scala

Date: 9/24/2019

Search results for: E1909046-001
Date: Fri Sep 20 10:57:51 2019 (GMT-04:00)
Search algorithm: Search Expert
Regions searched: 2600.00-450.00



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

Enalytic ID	E1909048-001
Batch Number	309182019M
Train Number	GATX224324
Sample ID	DEF 32.5%
Date Sampled	9/18/2019
Date Received	9/19/2019
Report Date	9/24/2019

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch# 309182019M Train# GATX224324

Test Parameter/Method	Units	Test Method (ISO) ¹	Acceptable Limit ²	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.9	BDK	9/24/2019	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3834	BDK	9/24/2019	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	<0.01	BDK	9/23/2019	Pass
Biuret	%	22241-2 Annex E	<0.3	0.13	BDK	9/23/2019	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	BDK	9/23/2019	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	BDK	9/23/2019	Pass
Phosphate	mg/kg	22241-2 Annex H	<0.5	<0.25	BDK	9/25/2019	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/23/2019	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/23/2019	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/23/2019	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/23/2019	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/23/2019	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	9/23/2019	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/23/2019	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/23/2019	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/23/2019	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	9/23/2019	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	BDK	9/20/2019	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0915	BDK	9/24/2019	---

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

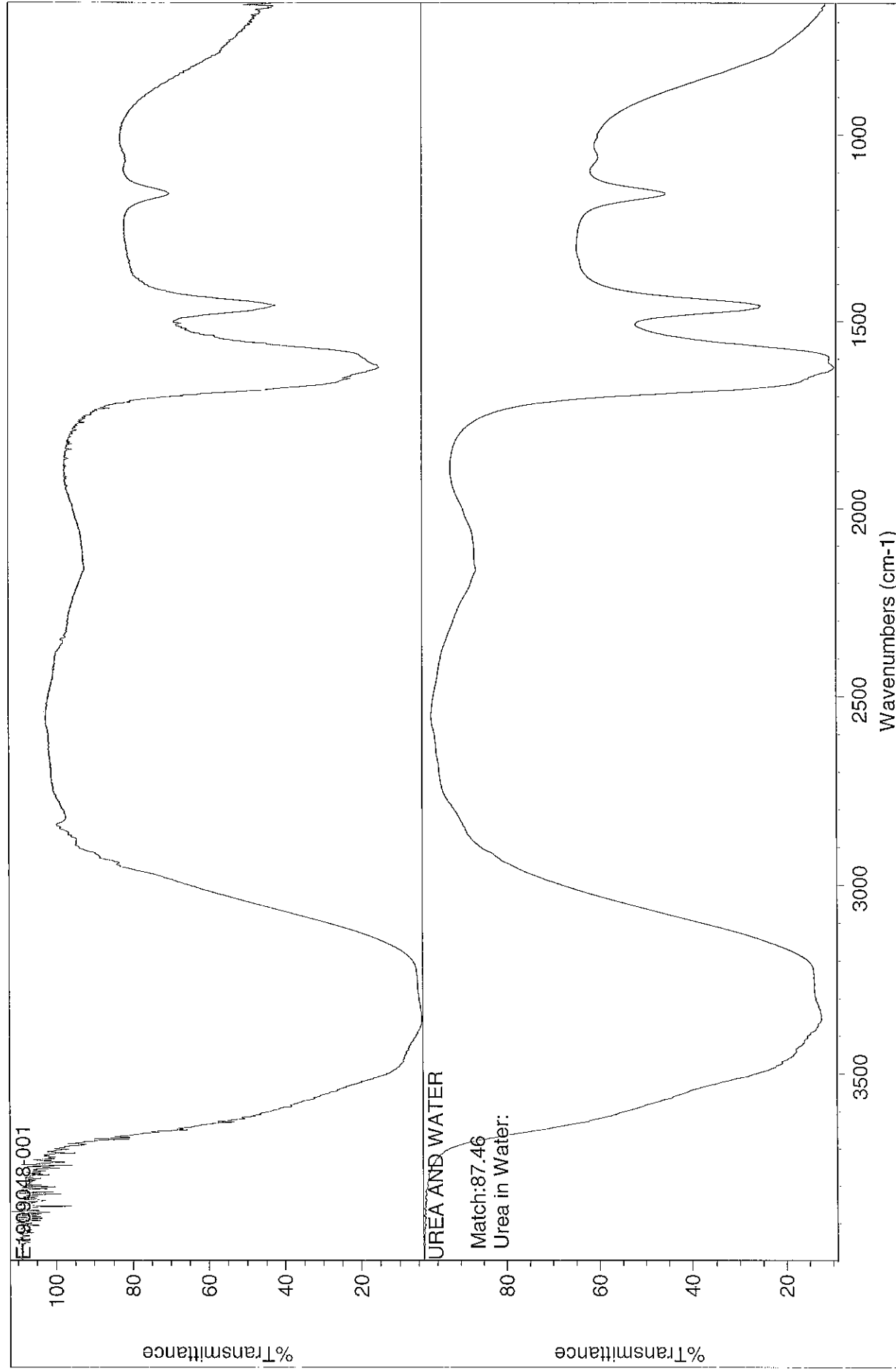
"The undersigned certifies that the value(s) reported have met the highest analytical quality control standards."

Certification Approval

Laboratory Director: Anthony J Scala

Date: 9/25/2019

Search results for: E1909048-001
Date: Fri Sep 20 10:59:44 2019 (GMT-04:00)
Search algorithm: Search Expert
Regions searched: 2600.00-450.00



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

Enalytic ID	E1810009-001
Batch Number	309262018
Train Number	AEX11804
Sample ID	DEF 32.7
Date Sampled	9/26/2018
Date Received	10/3/2018
Report Date	10/8/2018

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.7% DEF Batch# 309262018 Train #AEX11804

Test Parameter/Method	Units	Test Method (ISO)	Acceptable Limit	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	32.3	SPT	10/8/2018	Pass
Density @ 20degC	g/cm ³	3675	1.0870-1.0930	1.0905	CND	10/4/2018	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3826	CND	10/4/2018	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	<0.01	CND	10/4/2018	Pass
Biuret	%	22241-2 Annex E	<0.3	0.26	CND	10/4/2018	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5	<1.0	CND	10/5/2018	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	CLB	10/5/2018	Pass
Phosphate	mg/kg	22241-2 Annex H	<0.5	<0.25	CLB	10/4/2018	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	BDK	10/5/2018	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	BDK	10/5/2018	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	BDK	10/5/2018	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	BDK	10/5/2018	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	BDK	10/5/2018	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	BDK	10/5/2018	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	BDK	10/5/2018	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	BDK	10/5/2018	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.12	BDK	10/5/2018	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.39	BDK	10/5/2018	Pass
Identity by FTIR (attached)	Spectra	22241-2 Annex J	Match	Reference Match	CLB	10/4/2018	Pass

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."

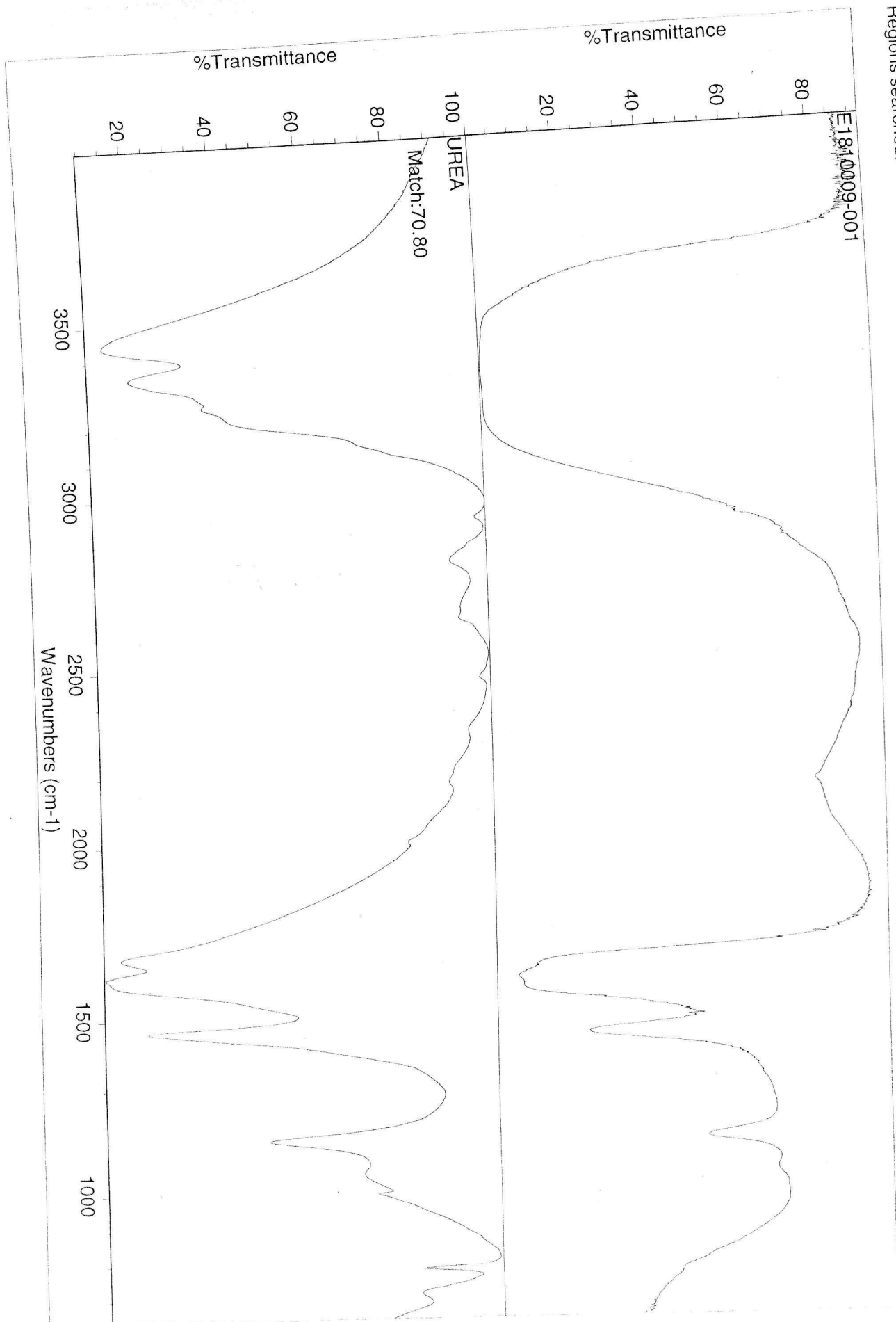
Certification Approval _____

Laboratory Director: Anthony J Scala

Enalytic FDA Reg. Number: 02-636-0096

Date: 10/8/2018

Search results for: E1810009-001
Date: Thu Oct 04 09:01:58 2018 (GMT-04:00)
Search algorithm: Search Expert
Regions searched: 2600.00-450.00



Chain of Custody Record

Quote Number:

[illegible]

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

Enalytic ID	E1909079-001
Batch Number	309272019P
Train Number	TILX264908
Sample ID	DEF 32.5%
Date Sampled	9/27/2019
Date Received	9/30/2019
Report Date	10/3/2019

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch# 309272019P Train# TILX264908

Test Parameter/Method	Units	Test Method (ISO) ¹	Acceptable Limit ²	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.4	32.7	BDK	10/3/2019	Pass
Refractive Index @ 20degC	N _D ²⁰	22241-2 Annex C	1.3814-1.3843	1.3830	CND	9/30/2019	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	<0.01	BDK	10/1/2019	Pass
Biuret	%	22241-2 Annex E	<0.3	0.11	BDK	10/3/2019	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	CND	10/1/2019	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	CND	10/2/2019	Pass
Phosphate	mg/kg	22241-2 Annex H	<0.5	<0.25	BDK	10/3/2019	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	10/1/2019	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	10/1/2019	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	10/1/2019	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	10/1/2019	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	10/1/2019	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	CLB	10/1/2019	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	10/1/2019	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	10/1/2019	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	10/1/2019	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	CLB	10/1/2019	Pass
Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached)	Spectra	22241-2 Annex J	Control Match	Match	BDK	9/30/2019	---
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0910	CND	9/30/2019	---

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

Date: 10/3/2019

Search results for: E1909079-001
Date: Mon Sep 30 15:30:12 2019 (GMT-04:00)
Search algorithm: Search Expert
Regions searched: 2600.00-450.00

