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Client: DEF Products, LLC
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Report Date 6/22/2021



Enalytic ID E2106055-001
Batch Number 306142021M
Train Number TILX264945
Sample ID DEF 32.5%
Date Sampled 6/14/2021
Date Received 6/18/2021
ISO 17025 Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.5% DEF Batch# 306142021M Train# TILX264945

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	6/21/2021	Pass
Refractive Index @ 20degC	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3826	ALB	6/18/2021	Pass
Alkalinity as NH₃	%	22241-2 Annex D	<0.2	0.11	ALB	6/21/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.10	ALB	6/21/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	6/21/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	12	MDC	6/21/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	PEN	6/22/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	6/22/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	6/22/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.07	PEN	6/22/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	6/22/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
	Mi	scellaneous Sec	ondary Unregula	ated Qualit	y Standards		
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	ALB	6/18/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0913	ALB	6/18/2021	

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. 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

Certification Approval

Laboratory Director: Anthony J Scala

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Enalytic DUNS Reg. Number: 02-636-0096

Date:

6/22/2021



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Enalytic ID E2106061-001 Batch Number 306182021M Train Number TILX200524 Sample ID DEF 32.0% Date Sampled 6/18/2021 Date Received 6/21/2021 ISO 17025 Certificate Number: AT-2956

Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.0% DEF Batch# 306182021M Train# TILX200524

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	6/23/2021	Pass
Refractive Index @ 20degc	N_D^{20}	22241-2 Annex C	1.3814-1.3843	1.3827	MDC	6/23/2021	Pass
Alkalinity as NH ₃	%	22241-2 Annex D	<0.2	0.12	ALB	6/21/2021	Pass
Biuret	%	22241-2 Annex E	<0.3	0.10	ALB	6/21/2021	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MDC	6/22/2021	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.0	MDC	6/22/2021	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.25	PEN	6/22/2021	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	6/22/2021	Pass
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.02	PEN	6/22/2021	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.06	PEN	6/22/2021	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	0.07	PEN	6/22/2021	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.05	PEN	6/22/2021	Pass
	Mis	scellaneous Sec	ondary Unregula	ated Qualit	y Standards		
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	6/22/2021	
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0913	ALB	6/22/2021	

Miscellaneous Secondary Unregulated Quality Standards							
Identify by FTIR (attached) ³	Spectra	22241-2 Annex J	Control Match	Match	MDC	6/22/2021	-
Density @ 20degC	g/cm ³	3675	Not Applicable	1.0913	ALB	6/22/2021	

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