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Report Date	10/1/2024

Enalytic ID	E2409045-001
Tanks #	8, 17
TRC #	309252024T
T #	3, 4, & 5
Sample ID	DEF 32.3%
Date Sampled	9/25/2024
Date Received	9/27/2024
ISO 17025	Certificate Number: L24-103

## Certificate of Analysis

Diesel Exhaust Fluid Analytical ISO-22241

Client ID: 32.3% DEF Tanks # 8, 17 T # 3, 4, & 5 TRC # 309252024T

Test Parameter/Method	Units	Test Method (ISO) <sup>1</sup>	Acceptable Limit <sup>2</sup>	Results	Chemist	Analysis Date	Pass/Fail
Urea Content	wt%	22241-2 Annex C	31.8-33.2	32.1	SPT	10/1/2024	Pass
Refractive Index @ 20degC	N <sub>D</sub> <sup>20</sup>	22241-2 Annex C	1.3814-1.3843	1.3823	NAC	9/30/2024	Pass
Alkalinity as NH <sub>3</sub>	%	22241-2 Annex D	<0.2	0.05	NAC	9/30/2024	Pass
Biuret	%	22241-2 Annex E	<0.3	0.15	MDC	9/30/2024	Pass
Aldehyde	mg/kg	22241-2 Annex F	<5.0	<1.0	MFB	9/30/2024	Pass
Insolubles	mg/kg	22241-2 Annex G	<20	<2.5	MFB	9/30/2024	Pass
Aluminum by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	9/30/2024	Pass
Calcium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	9/30/2024	Pass
Chromium by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	9/30/2024	Pass
Copper by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	9/30/2024	Pass
Iron by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	9/30/2024	Pass
Magnesium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	9/30/2024	Pass
Nickel by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	9/30/2024	Pass
Phosphate by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.46	BDK	9/30/2024	Pass
Potassium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	<0.15	BDK	9/30/2024	Pass
Sodium by ICP-OES	mg/kg	22241-2 Annex I	<0.5	0.97	BDK	9/30/2024	Fail
Zinc by ICP-OES	mg/kg	22241-2 Annex I	<0.2	<0.06	BDK	9/30/2024	Pass

### Miscellaneous Secondary Unregulated Quality Standards

Identify by FTIR (attached) <sup>3</sup>	Spectra	22241-2 Annex J	Control Match	---	---	---	---
Density @ 20degC	g/cm <sup>3</sup>	3675	Not Applicable	1.0883	MFB	10/1/2024	---

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 Perry Johnson certificate #L24-103. 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

Date: 10/1/2024