

Amalgatech LLC 2965 West Osborn Phoenix, AZ 85017

Phone: 602-252-0280 Fax: 602-252-0282 E-mail info@amalgatech.com

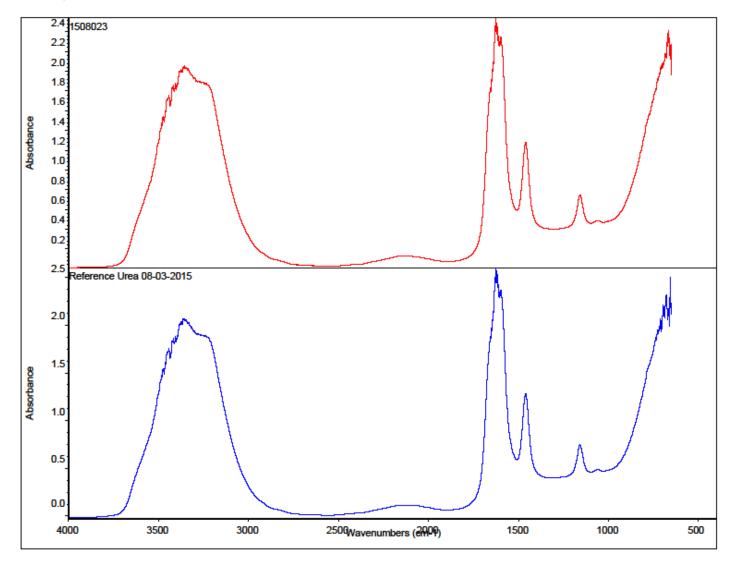
Contact: Company: Ray Pederson DEF Products Sample ID Batch # Lot #307282015 Sample ("D") 422 East Barioni Drive Address: Date sampled 7/28/2015 8/4/2015 Date Received City, ST, Zip Imperial, CA 92251 Date Promised 8/9/2015 defproducts@gmail.com Amalgatech ID 1508023 E-Mail 760427-4479 / Phone / Fax Report Date 8/4/2015

Diesel Exhaust Fluid per ISO 222411

Characteristics	Unit	Test Methods	Limits		Acceptance Range ²		Results
			min.	max.	min.	max.	Results
Urea content	% (m/m)	ISO 22241-2 Annex A ISO 22241-2 Annex B	31.8	33.2	30.8	34.2	31.7
Density at 20°C	kg/m ³	ISO 3675 or ISO 12185	1087.0	1093.0	1086.5	1093.5	1088.3
Refractive index at 20°C		ISO 22241-2 Annex C	1.3814	1.3843	1.3804	1.3853	1.3819
Alkalinity as NH ₃	%m/m	ISO 22241-2 Annex D		0.2		0.24	0.02
Biuret	%m/m	ISO 22241-2 Annex E		0.3		0.34	0.28
Aldehydes	mg/kg	ISO 22241-2 Annex F		5.0		7.4	4.4
Insoluble matter	mg/kg	ISO 22241-2 Annex G		20		27.6	3.1
Phosphate (PO ₄)	mg/kg	ISO 22241-2 Annex H		0.5		0.53	0.03
Calcium	mg/kg	ISO 22241-2 Annex I		0.5		0.55	0.13
Iron	mg/kg	ISO 22241-2 Annex I		0.5		0.65	0.01
Copper	mg/kg	ISO 22241-2 Annex I		0.2		0.24	0.00
Zinc	mg/kg	ISO 22241-2 Annex I		0.2		0.26	0.00
Chromium	mg/kg	ISO 22241-2 Annex I		0.2		0.26	0.08
Nickel	mg/kg	ISO 22241-2 Annex I		0.2		0.26	0.00
Aluminum	mg/kg	ISO 22241-2 Annex I		0.5		0.65	0.00
Magnesium	mg/kg	ISO 22241-2 Annex I		0.5		0.65	0.02
Sodium	mg/kg	ISO 22241-2 Annex I		0.5		0.75	0.03
Potassium	mg/kg	ISO 22241-2 Annex I		0.5		0.75	0.50
Identity		ISO 22241-2 Annex J	Identical to reference		Identical to reference		Indentical to Reference
Comments by Ama Urea Content is lowe		•	the acceptan	ce range for	ISO22241;		

² Acceptance Range = Limit adjusted for reproducibility per Annex B

Supporting Graph:



Important note: Amalgatech receives samples that are identified by the customer/sender and takes these identifications in good faith, reporting data to the customer using the customer's identification. Our laboratory services are not intended for marketing and are not product certifications. This report is © Amalgatech 2015. It may not be reproduced, altered, copied or disseminated except in whole. Use of the report is permitted, including copying, as long as the entire report, including this information section, is always provided in its entirety.

NOTE ¹ Amalgatech has performed the test in accordance with the revision of the standard in place at the time the test was performed. Amalgatech uses only active standards.

Respectfully submitted,

AMALGATECH

Ed Eaton Chief Engineer