

NVFEL Fuel Analysis Report

23945

Tank 21

Batch#

Facility Name: US EPA NVFEL Facility Type: In House

Owner: USEPA Phone: (734) 214-4881

2565 Plymouth Road

Ann Arbor MI 48105-2425 Washtenaw County

US

Inspector: N. Tschirhart Inspection Date : 12/19/2013

Time In: 00:00 Time Out: 00:00

Samples Type: Test Fuel

VOC

Inspection information logged in by NST on 12/19/2013.

Season:

Tank 21-12-19-13

FTAG: 23945

Comments:

Test Code	Test Method	Results	Units	Fuel Code:	3	Analyst	Analysis Date
5808	Weight Percent Oxygenates by D5599	0.00	Weight Percent			TS	1/8/2014
552	MTBE by D5599	0.00	Oxygen Percent			TS	1/8/2014
562	ETBE by D5599	0.00	Oxygen Percent			TS	1/8/2014
534	Ethanol by D5599	0.00	Oxygen Percent			TS	1/8/2014
572	TAME by D5599	0.00	Oxygen Percent			TS	1/8/2014
421	Sulfur in Gasoline D2622	38.5	Parts Per Million			NST	12/19/2013
62	Vapor Pressure by D5191 (Modified)	9.17	PS I			NST	12/19/2013
65	Percent Evaporated at 200 Degrees F D86	39.3	Volume Percent			RG	12/19/2013
66	Percent Evaporated at 300 Degrees F D86	86.5	Volume Percent			RG	12/19/2013
48	Aromatics in Gasoline MSD D5769	33.51	Volume Percent			TW	1/10/2014
49	Olefins in by FIA D1319	2.0	Volume Percent			RCG	12/19/2013
64	Benzene in Gasoline D3606	0.31	Volume Percent			TW	1/7/2014
593	Volume Percent Oxygenates by D5599	0.00	Volume Percent			TS	1/8/2014
57	TAME by D5599	0.00	Volume Percent			TS	1/8/2014
532	Ethanol by D5599	0.00	Volume Percent			TS	1/8/2014
59	Weight Percent Oxygen by D5599	0.00	Weight Percent			TS	1/8/2014
55	MTBE by D5599	0.00	Volume Percent			TS	1/8/2014
56	ETBE by D5599	0.00	Volume Percent			TS	1/8/2014
46	Aromatics by FIA D1319	31.3	Volume Percent			RCG	12/19/2013
630	Toluene in gasoline by MSD D5769	18.56	Volume Percent			TW	1/10/2014
63	Benzene in Gasoline by GC/MSD D5769	0.33	Volume Percent			TW	1/10/2014
69	Specific Gravity @ 60 deg F D4052	0.74373	60/60F			NT	12/19/2013
692	Degrees API D4052	58.76	Degrees API			NT	12/19/2013
691	Density @ 60 deg F D4052	0.74300	g/cm-03 @ 60 deg F			NT	12/19/2013
101	Initial Boiling Point D86	88.3	Degrees F			RG	12/19/2013
110	10 Percent D86	123.4	Degrees F			RG	12/19/2013
150	50 Percent D86	223.0	Degrees F			RG	12/19/2013
190	90 Percent D86	322.8	Degrees F			RG	12/19/2013
200	End Point D86	389.4	Degrees F			RG	12/19/2013
201	Residue D86	1.1	mL			RG	12/19/2013
202	Total Recovery D86	97.2	mL			RG	12/19/2013
203	Loss D86	1.7	mL			RG	12/19/2013
543	Methanol by D5599	0.00	Volume Percent			TS	1/8/2014

584	Isopropanol	by D5599	0.00	Volume Percent	TS	1/8/2014
585	t-Butanol	by D5599	0.00	Volume Percent	TS	1/8/2014
586	n-Propanol	by D5599	0.00	Volume Percent	TS	1/8/2014
587	sec-Butanol	by D5599	0.00	Volume Percent	TS	1/8/2014
588	DIPE	by D5599	0.00	Volume Percent	TS	1/8/2014
589	Isobutanol	by D5599	0.00	Volume Percent	TS	1/8/2014
5801	t-Amyl Alcohol	by D5599	0.00	Volume Percent	TS	1/8/2014
5802	n-Butanol	by D5599	0.00	Volume Percent	TS	1/8/2014
30	Lead in Gasoline	by D3237	0.001	Grm Pb per Gallon	Paragon	1/10/2014
32	Weight Fraction Carbon	D3343	0.86678	Weight Fraction	CPU	
991	Phosphorus in Gasoline	by D3231	0.0002	Grams per Gallon	Paragon	1/13/2014
221	Motor Octane		88.2	Motor Octane Number	Paragon	1/10/2014
73	Net Heat of Combustion	D3338	18438.07	BTU per Pound	CPU	
218	Sensitivity		8.9	RON-MON	CPU	1/10/2014
219	Antiknock		92.65	(RON+MON)/2	CPU	1/10/2014
220	Research Octane		97.1	Research Octane Number	Paragon	1/10/2014

SUGGESTED CITATION: *2014 Dodge Charger Vehicles with 3.6L & W5A580 Tier 2 Fuel – Test Data Package*. Version 2019-04.

Ann Arbor, MI: US EPA, National Vehicle and Fuel Emissions Laboratory, National Center for Advanced Technology, 2019.