NVFEL Fuel Analysis Report 25842

Tier 2 gasoline Batch#

Facility Name: US EPA NVFEL Testing Fuel Group Facility Type: In House

Owner: USEPA Phone: (734) 214-4881

2565 Plymouth Road

Ann Arbor MI 48105-2425 Washtenaw County US

Inspector: Nancy Tschirhart Inspection Date : 10/23/2013 Time In: 00:00 Time Out: 00:00

Samples Type: Test Fuel VOC

Inspection information logged in by NST on 7/6/2016. **Season:**

Tier 2 gasoline-27N 7-6 **FTAG: 25842** **Comments:** **sent out for octanes**

Test Code	Test Method	Results	Units	Fuel_ Code: 3	Analyst	Analysis Date
5808	Weight Percent Oxygenates by D5599	0.00	Weight Percent		HS	7/14/2016
552	MTBE by D5599	0.00	Oxygen Percent		HS	7/14/2016
562	ETBE by D5599	0.00	Oxygen Percent		HS	7/14/2016
534	Ethanol by D5599	0.00	Oxygen Percent		HS	7/14/2016
572	TAME by D5599	0.00	Oxygen Percent		HS	7/14/2016
421	Sulfur in Gasoline D2622	36.2	Parts Per Million		NST	8/2/2016
62	Vapor Pressure by D5191 (Modified)	9.11	PS I		NST	7/7/2016
65	Percent Evaporated at 200 Degrees F D86	41.9	Volume Percent		RG	7/26/2016
65	Percent Evaporated at 200 Degrees F D86	41.8	Volume Percent		RG	7/26/2016
66	Percent Evaporated at 300 Degrees F D86	88.3	Volume Percent		RG	7/26/2016
66	Percent Evaporated at 300 Degrees F D86	88.3	Volume Percent		RG	7/26/2016
48	Aromatics in Gasoline MSD D5769	32.19	Volume Percent		TW	7/13/2016
48	Aromatics in Gasoline MSD D5769	31.99	Volume Percent		TW	7/13/2016
49	Olefins in by FIA D1319	0.8	Volume Percent		RCG	7/11/2016
64	Benzene in Gasoline D3606	0.02	Volume Percent		TW	7/12/2016
532	Ethanol by D5599	0.00	Volume Percent		HS	7/14/2016
57	TAME by D5599	0.00	Volume Percent		HS	7/14/2016
59	Weight Percent Oxygen by D5599	0.00	Weight Percent		HS	7/14/2016
593	Volume Percent Oxygenates by D5599	0.00	Volume Percent		HS	7/14/2016
55	MTBE by D5599	0.00	Volume Percent		HS	7/14/2016
56	ETBE by D5599	0.00	Volume Percent		HS	7/14/2016
630	Toluene in gasoline by MSD D5769	19.74	Volumn Percent		TW	7/13/2016
63	Benzene in Gasoline by GC/MSD D5769	0.04	Volume Percent		TW	7/13/2016
63	Benzene in Gasoline by GC/MSD D5769	0.04	Volume Percent		TW	7/13/2016
630	Toluene in gasoline by MSD D5769	19.62	Volumn Percent		TW	7/13/2016
46	Aromatics by FIA D1319	30.5	Volume Percent		RCG	7/11/2016
69	Specific Gravity @ 60 deg F D4052	0.74301	60/60F		NT	7/7/2016
692	Degrees API D4052	58.94	Degrees API		NT	7/7/2016
691	Density @ 60 deg F D4052	0.74227	g/cm-03 @ 60 deg F		NT	7/7/2016
101	Initial Boiling Point D86	88.7	Degrees F		RG	7/26/2016

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101	Initial Boiling Point	D86	89.4	Degrees F	RG	7/26/2016
110	10 Percent	D86	123.8	Degrees F	RG	7/26/2016
110	10 Percent	D86	124.0	Degrees F	RG	7/26/2016
150	50 Percent	D86	219.0	Degrees F	RG	7/26/2016
150	50 Percent	D86	219.2	Degrees F	RG	7/26/2016
190	90 Percent	D86	313.7	Degrees F	RG	7/26/2016
190	90 Percent	D86	312.6	Degrees F	RG	7/26/2016
200	End Point	D86	407.1	Degrees F	RG	7/26/2016
200	End Point	D86	403.9	Degrees F	RG	7/26/2016
201	Residue	D86	1.1	mL	RG	7/26/2016
201	Residue	D86	1.1	mL	RG	7/26/2016
202	Total Recovery	D86	97.5	mL	RG	7/26/2016
202	Total Recovery	D86	97.6	mL	RG	7/26/2016
203	Loss	D86	1.4	mL	RG	7/26/2016
203	Loss	D86	1.3	mL	RG	7/26/2016
543	Methanol by D5599		0.00	Volume Percent	HS	7/14/2016
584	Isopropanol by D5599		0.00	Volume Percent	HS	7/14/2016
585	t-Butanol by D5599		0.00	Volume Percent	HS	7/14/2016
586	n-Propanol by D5599		0.00	Volume Percent	HS	7/14/2016
587	sec-Butanol by D5599		0.00	Volume Percent	HS	7/14/2016
588	DIPE by D5599		0.00	Volume Percent	HS	7/14/2016
589	Isobutanol by D5599		0.00	Volume Percent	HS	7/14/2016
5801	t-Amyl Alcohol by D5599		0.00	Volume Percent	HS	7/14/2016
5802	n-Butanol by D5599		0.00	Volume Percent	HS	7/14/2016
30	Lead in Gasoline by D3237		0.001	Grm Pb per Gallon	Paragon	7/16/2016
32	Weight Fraction Carbon D3343		0.86650	Weight Fraction	HS	
991	Phosphorus in Gasoline by D3231		0.0002	Grams per Gallon	Paragon	7/18/2016
221	Motor Octane		88.5	Motor Octane Number	Paragon	7/22/2016
220	Research Octane		96.1	Research Octane Number	Paragon	7/22/2016
219	Antiknock		92.30	(RON+MON)/2	CPU	7/22/2016
218	Sensitivity		7.6	RON-MON	CPU	7/22/2016
230	Net Heating Value D240		18443.00	BTU/lb	HS	8/4/2016

SUGGESTED CITATION: *2016 Honda 1.5L L15B7 Engine Tier 2 Fuel – Test Data Package*. Version 2018-05. Ann Arbor, MI: US EPA, National Vehicle and Fuel Emissions Laboratory, National Center for Advanced Technology, 2018.