

# NVFEL Fuel Analysis Report

25206

## Tier 3

Batch#

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

Owner: USEPA Phone: (734) 214-4448

2565 Plymouth Road

Ann Arbor MI 48105-2425 Washtenaw County

US

Inspector: Hilda Sola-Soto Inspection Date : 11/1/2017

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

Samples Type: Test Fuel

VOC

Inspection information logged in by RG on 7/13/2015.

Season:

Tier 3-Tank 22 7-13

FTAG: 25206

Comments:

Batch #CL821LT10 sample sent to Paragon

Test Code	Test Method	Results	Units	Fuel_ Code:	74	Analyst	Analysis Date
600	DIPE in Fuel by D4815	0.00	Volume Percent			TW	7/15/2015
5803	sec-Butanol in Fuel by D4815	0.03	Volume Percent			TW	7/15/2015
428	Sulfur in Gasoline by D5453	8.30	Parts Per Million			NS	7/15/2015
596	MTBE in Fuel by D4815	0.00	Volume Percent			TW	7/15/2015
5810	n-Butanol in Fuel by D4815	0.00	Volume Percent			TW	7/15/2015
5810	n-Butanol in Fuel by D4815	0.00	Volume Percent			TW	7/15/2015
5809	t-Amyl Alcohol in Fuel by D4815	0.00	Volume Percent			TW	7/15/2015
5808	Total Oxygenate Weight Percent by D5599	10.47	Weight Percent			DC	7/15/2015
598	TAME in Fuel by D4815	0.00	Volume Percent			TW	7/15/2015
427	Sulfur in Gasoline by D7039	7.4	Parts Per Million			MJP	12/14/2017
595	Total Oxygenates Volume Percent from D4815	9.99	Volume Percent			TW	7/15/2015
594	Total Oxygenate Weight Percent by D4815	10.59	Weight Percent			TW	7/15/2015
590	Total Oxygen Weight Percent by D4815	3.67	Oxygen Weight Percent			TW	7/15/2015
5807	iso-Propanol in Fuel by D4815	0.00	Volume Percent			TW	7/15/2015
5806	n-Propanol in Fuel by D4815	0.00	Volume Percent			TW	7/15/2015
5804	Oxygen in sec-Butanol by D4815	0.01	Oxygen weight Percent			TW	7/15/2015
597	ETBE in Fuel by D4815	0.00	Volume Percent			TW	7/15/2015
427	Sulfur in Gasoline by D7039	7.6	Parts Per Million			MJP	12/14/2017
552	Oxygen in MTBE by D5599	0.00	Oxygen Weight Percent			DC	7/15/2015
562	Oxygen in ETBE by D5599	0.00	Oxygen Weight Percent			DC	7/15/2015
534	Oxygen in Ethanol by D5599	3.64	Oxygen Weight Percent			DC	7/15/2015
572	Oxygen in TAME by D5599	0.00	Oxygen Weight Percent			DC	7/15/2015
62	Vapor Pressure by D5191 (Modified)	8.75	PS I			NST	7/14/2015
65	Percent Evaporated at 200 Degrees F D86	48.0	Volume Percent			RG	7/14/2015
65	Percent Evaporated at 200 Degrees F D86	48.1	Volume Percent			RG	7/14/2015
66	Percent Evaporated at 300 Degrees F D86	84.0	Volume Percent			RG	7/14/2015
66	Percent Evaporated at 300 Degrees F D86	84.0	Volume Percent			RG	7/14/2015
48	Aromatics in Gasoline MSD D5769	22.12	Volume Percent			TW	7/14/2015
49	Olefins in by FIA D1319	5.4	Volume Percent			RCG	7/22/2015
593	Total Oxygenates Volume Percent from D5599	9.86	Volume Percent			DC	7/15/2015

55	MTBE in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
532	Ethanol in Fuel by D5599		9.86 Volume Percent	DC	7/15/2015
59	Total Oxygen Weight Percent by D5599		3.64 Oxygen Weight Percent	DC	7/15/2015
57	TAME in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
56	ETBE in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
63	Benzene in Gasoline by GC/MSD D5769		0.55 Volume Percent	TW	7/14/2015
630	Toluene in gasoline by MSD D5769		6.15 Volume Percent	TW	7/14/2015
46	Aromatics by FIA D1319		22.9 Volume Percent	RCG	7/22/2015
69	Specific Gravity @ 60 deg F D4052		0.74850 60/60F	NT	7/14/2015
692	Degrees API D4052		57.55 Degrees API	NT	7/14/2015
691	Density @ 60 deg F D4052		0.74776 g/cm-03 @ 60 deg F	NT	7/14/2015
101	Initial Boiling Point D86		93.7 Degrees F	RG	7/14/2015
101	Initial Boiling Point D86		106.2 Degrees F	RG	7/14/2015
110	10 Percent D86		129.2 Degrees F	RG	7/14/2015
110	10 Percent D86		128.8 Degrees F	RG	7/14/2015
150	50 Percent D86		210.0 Degrees F	RG	7/14/2015
150	50 Percent D86		209.8 Degrees F	RG	7/14/2015
190	90 Percent D86		322.0 Degrees F	RG	7/14/2015
190	90 Percent D86		321.3 Degrees F	RG	7/14/2015
200	End Point D86		387.0 Degrees F	RG	7/14/2015
200	End Point D86		387.1 Degrees F	RG	7/14/2015
201	Residue D86		0.8 mL	RG	7/14/2015
201	Residue D86		0.9 mL	RG	7/14/2015
202	Total Recovery D86		97.3 mL	RG	7/14/2015
202	Total Recovery D86		97.2 mL	RG	7/14/2015
203	Loss D86		2.0 mL	RG	7/14/2015
203	Loss D86		1.8 mL	RG	7/14/2015
543	Methanol in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
533	Ethanol in Fuel by D4815		9.96 Volume Percent	TW	7/15/2015
584	Iso-Propanol in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
585	t-Butanol in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
586	n-Propanol in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
587	sec-Butanol in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
588	DIPE in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
589	Iso-Butanol in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
5801	t-Amyl Alcohol in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
5802	n-Butanol in Fuel by D5599		0.00 Volume Percent	DC	7/15/2015
542	Methanol in Fuel D4815		0.00 Volume Percent	TW	7/15/2015
582	t-Butanol in Fuel by D4815		0.00 Volume Percent	TW	7/15/2015
583	iso-Butanol in Fuel by D4815		0.00 Volume Percent	TW	7/15/2015
30	Lead in Gasoline by D3237		0.00 Gram Pb per Gallon	Paragon	7/23/2015

32	Weight Fraction Carbon D3343	0.86315	Weight Fraction	CPU	
227	Gum Content Washed	0.5	mg/100ml	Paragon	7/20/2015
228	Gum Content Unwashed	0.6	mg/100ml	Paragon	7/20/2015
991	Phosphorus in Gasoline by D3231	0.0002	Grams per Gallon	Paragon	7/20/2015
221	Motor Octane	83.5	Motor Octane Number	Paragon	7/22/2015
219	Antiknock	87.25	(RON+MON)/2	CPU	7/22/2015
220	Research Octane	91.0	Research Octane Number	Paragon	7/22/2015
218	Sensitivity	7.5	RON-MON	CPU	7/22/2015
225	Copper Corrosion D130	1a	Designation	Paragon	7/20/2015
230	Net Heating Value D240	17978.00	BTU/lb	Paragon	7/23/2015
231	Carbon Content D5291	82.67	Weight Percent	Paragon	7/17/2015
232	Hydrogen Content D5291	13.66	Weight Percent	Paragon	7/17/2015
492	Olefins by D6550	5.5	Weight Percent	LS	7/16/2015
492	Olefins by D6550	5.5	Weight Percent	LS	7/16/2015

**SUGGESTED CITATION:** 2016 Honda 1.5L L15B7 Engine Tier 3 Fuel – Test Data Package. Version 2018-05. Ann Arbor, MI: US EPA, National Vehicle and Fuel Emissions Laboratory, National Center for Advanced Technology, 2018.