

LEV III

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 : 6/6/2013

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

Samples Type: Test Fuel

VOC

Inspection information logged in by NST on 3/4/2015.

Season:

LEV III-tank 24S

FTAG: 24670

Comments:

Test Code	Test Method	Results	Units	Fuel_ 64 Code:	Analyst	Analysis Date
428	Sulfur in Gasoline by D5453	9.00	Parts Per Million		Hal	3/4/2015
428	Sulfur in Gasoline by D5453	9.55	Parts Per Million		NS	4/29/2015
5808	Weight Percent Oxygenates by D5599	9.91	Weight Percent		TS	4/6/2015
428	Sulfur in Gasoline by D5453	9.28	Parts Per Million		NS	4/29/2015
552	MTBE by D5599	0.00	Oxygen Percent		TS	4/6/2015
562	ETBE by D5599	0.00	Oxygen Percent		TS	4/6/2015
534	Ethanol by D5599	3.44	Oxygen Percent		TS	4/6/2015
572	TAME by D5599	0.00	Oxygen Percent		TS	4/6/2015
62	Vapor Pressure by D5191 (Modified)	7.20	PS I		Hal	3/4/2015
62	Vapor Pressure by D5191 (Modified)	7.12	PS I		NST	4/6/2015
65	Percent Evaporated at 200 Degrees F D86	0.0	Volume Percent		Hal	3/4/2015
65	Percent Evaporated at 200 Degrees F D86	47.3	Volume Percent		RG	4/7/2015
66	Percent Evaporated at 300 Degrees F D86	0.0	Volume Percent		Hal	3/4/2015
66	Percent Evaporated at 300 Degrees F D86	83.7	Volume Percent		RG	4/7/2015
48	Aromatics in Gasoline MSD D5769	21.80	Volume Percent		TW	4/8/2015
49	Olefins in by FIA D1319	5.2	Volume Percent		RCG	4/8/2015
59	Weight Percent Oxygen by D5599	3.44	Weight Percent		TS	4/6/2015
57	TAME by D5599	0.00	Volume Percent		TS	4/6/2015
593	Volume Percent Oxygenates by D5599	9.34	Volume Percent		TS	4/6/2015
55	MTBE by D5599	0.00	Volume Percent		TS	4/6/2015
532	Ethanol by D5599	9.34	Volume Percent		TS	4/6/2015
56	ETBE by D5599	0.00	Volume Percent		TS	4/6/2015
63	Benzene in Gasoline by GC/MSD D5769	0.68	Volume Percent		TW	4/8/2015
46	Aromatics by FIA D1319	20.7	Volume Percent		RCG	4/8/2015
630	Toluene in gasoline by MSD D5769	5.18	Volume Percent		TW	4/8/2015
69	Specific Gravity @ 60 deg F D4052	0.74892	60/60F		NT	4/6/2015
692	Degrees API D4052	57.44	Degrees API		NT	4/6/2015
691	Density @ 60 deg F D4052	0.74818	g/cm-03 @ 60 deg F		NT	4/6/2015
101	Initial Boiling Point D86	106.0	Degrees F		Hal	3/4/2015
101	Initial Boiling Point D86	114.6	Degrees F		RG	4/7/2015
110	10 Percent D86	138.0	Degrees F		Hal	3/4/2015
110	10 Percent D86	136.8	Degrees F		RG	4/7/2015
150	50 Percent D86	209.5	Degrees F		RG	4/7/2015

150	50 Percent	D86	206.0 Degrees F	Hal	3/4/2015
190	90 Percent	D86	317.5 Degrees F	RG	4/7/2015
190	90 Percent	D86	318.0 Degrees F	Hal	3/4/2015
200	End Point	D86	346.3 Degrees F	RG	4/7/2015
200	End Point	D86	346.0 Degrees F	Hal	3/4/2015
201	Residue	D86	1.1 mL	Hal	3/4/2015
201	Residue	D86	1.0 mL	RG	4/7/2015
202	Total Recovery	D86	97.7 mL	Hal	3/4/2015
202	Total Recovery	D86	97.3 mL	RG	4/7/2015
203	Loss	D86	1.2 mL	Hal	3/4/2015
203	Loss	D86	1.7 mL	RG	4/7/2015
543	Methanol by D5599		0.00 Volume Percent	TS	4/6/2015
584	Isopropanol by D5599		0.00 Volume Percent	TS	4/6/2015
585	t-Butanol by D5599		0.00 Volume Percent	TS	4/6/2015
586	n-Propanol by D5599		0.00 Volume Percent	TS	4/6/2015
587	sec-Butanol by D5599		0.00 Volume Percent	TS	4/6/2015
588	DIPE by D5599		0.00 Volume Percent	TS	4/6/2015
589	Isobutanol by D5599		0.00 Volume Percent	TS	4/6/2015
5801	t-Amyl Alcohol by D5599		0.00 Volume Percent	TS	4/6/2015
5802	n-Butanol by D5599		0.00 Volume Percent	TS	4/6/2015
30	Lead in Gasoline by D3237		0.000 Grm Pb per Gallon	Haltermann	3/4/2015
227	Gum Content Washed		2.0 mg/100ml	Haltermann	3/4/2015
228	Gum Content Unwashed		11.5 mg/100ml	Haltermann	3/4/2015
991	Phosphorus in Gasoline by D3231		0.0000 Grams per Gallon	Haltermann	3/4/2015
221	Motor Octane		84.3 Motor Octane Number	Paragon	4/6/2015
221	Motor Octane		84.6 Motor Octane Number	Haltermann	3/4/2015
220	Research Octane		92.2 Research Octane Number	Haltermann	3/4/2015
219	Antiknock		88.50 (RON+MON)/2	CPU	3/4/2015
219	Antiknock		88.35 (RON+MON)/2	CPU	4/6/2015
218	Sensitivity		7.8 RON-MON	CPU	3/4/2015
218	Sensitivity		8.1 RON-MON	CPU	4/6/2015
220	Research Octane		92.4 Research Octane Number	Paragon	4/6/2015
225	Copper Corrosion D130		1a Designation	Haltermann	3/4/2015
230	Net Heating Value D240		17999.00 BTU/lb	Haltermann	3/4/2015
230	Net Heating Value D240		17963.00 BTU/lb	Paragon	4/9/2015
231	Carbon Content D5291		82.65 Weight Percent	Haltermann	3/4/2015
231	Carbon Content D5291		82.65 Weight Percent	Paragon	4/6/2015
232	Hydrogen Content D5291		13.66 Weight Percent	Haltermann	3/4/2015
232	Hydrogen Content D5291		13.74 Weight Percent	Paragon	4/6/2015
492	Olefins by D6550		4.7 Volume Percent	Hal	3/4/2015

SUGGESTED CITATION: 2013 Ford 1.6L EcoBoost Engine LEV III Fuel – Test Data Package. Version 2018-10. Ann Arbor, MI:

US EPA, National Vehicle and Fuel Emissions Laboratory, National Center for Advanced Technology, 2018.