

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 & 845RE 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.