

Aircraft Accident Review

Northstar Jet
Robyn Jurinski- FBO Assistant GM
4337 Corporate Way
Missoula, MT 59808
406 721 8886

Date of Accident: 06/27/2022
Time of Accident: Approximately 0945
Tail Number: N12VV
Aircraft Type: RV9A

N12VV fueled with Avgas, at Self-Serve at 0705 and again at 0939
Last sump prior to crash was 6/27/2022 at approximately 0900
The self-serve tank was shut down after the crash occurred.
No other aircraft were fueled at the self-serve tank on 6/27/2022
Sumps performed after the accident
API Gravity 69.1

Last load delivered to self-serve tank: 5/22/2022
Gallons Delivered: 4799
BOL API Gravity: 69.3
12,000 gallon tank
Gallons sold, since fuel delivery and prior to accident: 1224.10
Aircraft fueled prior to accident: 53

Vessel Serial Number: F11070-1
Coalescer Model Number: CAA22-5SB
Separator Model Number: SS424FB-5

Sump performed after accident: 1A
Sample taken between hose and filter
Nozzle Sample performed: 1A
Nozzle Filter checked after sample: Clear
Filter Sump: 1A
Fuel loads are filtered into tank and filtered again at fueling

Northstar Jet

Created on (UTC):

Terminal: M4000-4000142

Start Date: 6/27/2022

End Date: 6/27/2022

| Date | Invoice # | Status | Card Number | Name / Tail Number | Amount | Price | Units | Card | Product / Pump |
|-------------------------|-----------|------------|-------------|--------------------|----------|---------|--------|------|----------------|
| 6/27/2022 7:05:06 AM | 102519 | CLOSE D | | | \$120.90 | \$6.500 | 18.600 | Visa | 100 LL / 100LL |
| 6/27/2022 9:39:40 AM | 102520 | CLOSE D | | | \$62.40 | \$6.500 | 9.600 | Visa | 100 LL / 100LL |

Running Totals

Number of Sales: 2

Sale Total: \$183.30

Units Total: 28.200

Observed: 72.0
TEMP: 80°F
Corrected to 60°F
69.1
Collected 12:45
6/28/22
Self Serve

Phillips 66

Certificate of Analysis

Phillips 66 - Billings Refinery
401 South 23rd Street
Billings, MT, 59101

69.3

Product 100 LL Aviation Gasoline
Class AvGas Grade 100LL
Sample Point: TK49
Sample Date: Apr 25 2022 7:44PM
Order Volume:

Sample ID 220439909
Batch ID B-220425-05138
Cert ID: MFG-220427-00039
EPA No.
Transport ID: Tk 49 avgas local loading

| Method | Property | Units | Results | Specs | | Notes |
|------------|--------------------------------|-----------|----------------|-------|----------------|-------|
| | | | | Min | Max | |
| ASTM D2386 | Freeze Point | °F | <-77 | | -77 | |
| ASTM D5059 | Lead (Pb) | g/gal | 1.89 | 1.2 | 2.0 | |
| ASTM D4052 | API Gravity | °API | 69.3 | | | |
| ASTM D86 | Initial Boiling Pt, evaporated | °F | 99 | | | |
| | 10 % volume, evaporated | °F | 155 | | 161 | |
| | 40 % volume, evaporated | °F | 195 | 172 | | |
| | 50 % volume, evaporated | °F | 202 | | 217 | |
| | 90 % volume, evaporated | °F | 221 | | 271 | |
| | Final Boiling Pt, evaporated | °F | 273 | | 327 | |
| | 10% + 50% volume, evaporated | °F | 356 | 281 | | |
| | Recovery | volume % | 98 | 97 | | |
| | Residue | volume % | 1.2 | | 1.4 | |
| | Loss | volume % | 0.8 | | 1.4 | |
| ASTM D3338 | Net Heat of Combustion | Btu/lb | 18898 | 18729 | | |
| ASTM D5191 | Reid Vapor Pressure (RVP) | psi | 6.22 | 5.7 | 6.8 | |
| ASTM D130 | Corrosion, Copper Strip | | 1a | | 1b | |
| ASTM-D873 | Gum, potential | mg/100 mL | 0.800 | | 5 | |
| | Visible Lead Precipitate | mg/100 mL | 0.000 | | 2 | |
| ASTM D2622 | Sulfur (S) | ppm_w | <3.0 | | 430 | |
| ASTM D1094 | Interface Rating | | 1 | | | |
| | Separation | | 1 | | 2 | |
| | Volume Change | mL | 0.0 | | 2 | |
| ASTM D1319 | Aromatics | volume % | 8.5 | 5 | | |
| ASTM D2392 | Color | | Acceptable | | Acceptable | |
| ASTM D2700 | Motor Octane Number | | 101.3 | 100.6 | | |
| | Aviation Lean Rating | | 104.6 | 101 | | |
| ASTM-D909 | Performance Number | | 135.4 | 133 | | |
| ASTM D4176 | Appearance | | Clear & Bright | | Clear & Bright | |

In compliance with the latest version of ASTM D910

Notes:

TK49 RELEASED 4-27-22

Comments:

Tk 49 avgas local loading