

Fuel Service Co

Test Report for Fuel Dispensers (other than LPG)

Test Details

| | | | |
|---------------------------------|-----------------------|-----------------|--------------------------|
| Date of test | 06/08/2024 | Operator | ServoPlus |
| Job number | 54321 | Site name | Laverton |
| Type | In-service Inspection | Site number | 223344 |
| Maximum permissible error (MPE) | 0.3 % | Contact on site | Luke Smith |
| Verifier's name | Johnny Petro | Street Address | 100 Little Boundary Road |
| Registration number | VR-01234 | Suburb | Laverton |
| Verification mark | PET1234 | State | VIC |
| | | Post Code | 3026 |

Comments
Luke makes a really good coffee.

Measures

Details of the Reference Standards of Measurement used for testing (clause 2.0).

| Measure 1 | |
|----------------------------|------------|
| Type | Conical |
| Sightglass? | no |
| Serial number | LMI 101 |
| Volume | 15 L |
| Reg. 13 Certificate number | AB112233 |
| Certificate expiry | 27/10/2030 |

| Measure 2 | |
|----------------------------|-------------|
| Type | Cylindrical |
| Sightglass? | yes |
| Serial number | LMI 202 |
| Volume | 100 L |
| Reg. 13 Certificate number | AB334455 |
| Certificate expiry | 1/12/2030 |

| Measure 3 | |
|----------------------------|-------------|
| Type | Cylindrical |
| Sightglass? | yes |
| Serial number | LMI 303 |
| Volume | 200 L |
| Reg. 13 Certificate number | AB667788 |
| Certificate expiry | 15/05/2030 |

Instruments

Dispenser 1/2

Instrument details

| | |
|--------------------------------|---|
| Manufacturer | Wayne |
| Make | Helix 6000 |
| Model number | C(WH/LM)44-44R |
| Serial number | 40-1003326 |
| Manufacture date | 2018 |
| NMI pattern approval | 5/6A/232 |
| Products approved for delivery | Petrol, Diesel, Bio-diesel, Ethanol, DEF/AdBlue |
| Type of system | Pressurised |

Visual inspection (clause 3.1)

| | |
|---|-------|
| 1. Does the dispenser comply with its certificate/s of approval (CofA)? | ✓ Yes |
| 2. Are all mandatory descriptive markings clearly and permanently on a data plate that is fixed to the dispenser? | ✓ Yes |
| 3. Is the instrument wire sealed in line with the CofA, is there a Verifier Mark on the meter(s)? | ✓ Yes |
| 4. Is the dispenser firmly fixed on its foundations? | ✓ Yes |
| 5. Are all panels secure and cover windows not broken? | ✓ Yes |
| 6. Do the indications of volume, unit price and total price correspond with the hose selected? | ✓ Yes |
| 7. Are all indications clearly visible under all conditions, day and night? | ✓ Yes |
| 8. Are the hoses in reasonable condition, e.g.: they are not badly chafed, split or worn? | ✓ Yes |
| 9. Does each nozzle terminate the delivery when returned to its holsters? | ✓ Yes |
| 10. Is the dispenser free from any leaks? | ✓ Yes |
| 11. For self-service systems: do the dispenser number/s correspond with the console? | ✓ Yes |
| 12. For continuous indicators: do the price-posting wheels line up with, and follow, the internal price-setting ringer lever? | N/A |

1/ULP91

| | |
|-----------------------|---------------|
| Hose serial | 40-1003326-B1 |
| Unit price | 219.90 € / L |
| Start tote | 941358 |
| End tote | 941478 |
| Vol. used for testing | 120 L |
| Q _{min} | 4 L/min |
| Q _{max} | 40 L/min |
| Max achievable rate | 38 L/min |
| Performance code | C |

In-service Inspection

| Run | V _{FD} | V _{REF} | E _{FD} (%) | E _D (%) |
|--------|-----------------|------------------|---------------------|--------------------|
| #1 | 15.04 | 15 | 0.27 | - |
| #2 | 15.03 | 15 | 0.20 | - |
| #3 | 15.04 | 15 | 0.27 | - |
| #4 | 15.04 | 15 | 0.27 | - |
| Preset | 15.04 | 15 | 0.27 | - |

Average error runs 1-3 (E_{AV}) 0.25 %

Anti-drain/Hose-dilation fuel vol. ✓ 12 mL

Verification

INSTRUMENT VERIFIED UNDER THE NATIONAL MEASUREMENT ACT 1960

PET1234H4

| Run | V _{FD} | V _{REF} | E _{FD} (%) | E _D (%) |
|--------|-----------------|------------------|---------------------|--------------------|
| #1 | 15 | 15 | 0.00 | - |
| #2 | 14.99 | 15 | -0.07 | - |
| #3 | 15 | 15 | 0.00 | - |
| #4 | 15 | 15 | 0.00 | - |
| Preset | 15.01 | 15 | 0.07 | - |

Average error runs 1-3 (E_{AV}) -0.02 %

Anti-drain/Hose-dilation fuel vol. ✓ 12 mL

Existing verification mark ABC9876

Compliance

| | |
|--|--------|
| Checking facility for indicating devices | ✓ Pass |
| Zero setting | ✓ Pass |
| Price computing | ✓ Pass |
| Nozzle cut-off | ✓ Pass |
| Interlock | ✓ Pass |
| Pre-set indications | ✓ Pass |
| Overall result | ✓ Pass |

1/E-10

| | |
|-----------------------|---------------|
| Hose serial | 40-1003326-B2 |
| Unit price | 217.90 € / L |
| Start tote | 390222 |
| End tote | 390267 |
| Vol. used for testing | 45 L |
| Q _{min} | 4 L/min |
| Q _{max} | 40 L/min |
| Max achievable rate | 40 L/min |
| Performance code | B |

In-service Inspection

| Run | V _{FD} | V _{REF} | E _{FD} (%) | E _D (%) |
|--------|-----------------|------------------|---------------------|--------------------|
| #1 | 15.01 | 15 | 0.07 | - |
| #2 | 15.01 | 15 | 0.07 | - |
| #3 | 15.01 | 15 | 0.07 | - |
| #4 | 15.01 | 15 | 0.07 | - |
| Preset | 15.02 | 15 | 0.13 | - |

Average error runs 1-3 (E_{AV}) 0.07 %

Anti-drain/Hose-dilation fuel vol. ✓ 10 mL

Compliance

| | |
|--|--------|
| Checking facility for indicating devices | ✓ Pass |
| Zero setting | ✓ Pass |
| Price computing | ✓ Pass |
| Nozzle cut-off | ✓ Pass |
| Interlock | ✓ Pass |
| Pre-set indications | ✓ Pass |
| Overall result | ✓ Pass |

1/PULP98

| | |
|-----------------------|---------------|
| Hose serial | 40-1003326-B3 |
| Unit price | 242.90 € / L |
| Start tote | 133740 |
| End tote | 133785 |
| Vol. used for testing | 45 L |
| Q _{min} | 4 L/min |
| Q _{max} | 40 L/min |
| Max achievable rate | 40 L/min |
| Performance code | B |

In-service Inspection

| Run | V _{FD} | V _{REF} | E _{FD} (%) | E _D (%) |
|--------|-----------------|------------------|---------------------|--------------------|
| #1 | 14.98 | 15 | -0.13 | - |
| #2 | 14.98 | 15 | -0.13 | - |
| #3 | 14.99 | 15 | -0.07 | - |
| #4 | 15 | 15 | 0.00 | - |
| Preset | 14.99 | 15 | -0.07 | - |

Average error runs 1-3 (E_{AV}) -0.11 %

Anti-drain/Hose-dilation fuel vol. ✓ 8 mL

Compliance

| | |
|--|--------|
| Checking facility for indicating devices | ✓ Pass |
| Zero setting | ✓ Pass |
| Price computing | ✓ Pass |
| Nozzle cut-off | ✓ Pass |
| Interlock | ✓ Pass |
| Pre-set indications | ✓ Pass |
| Overall result | ✓ Pass |

1/Premium Diesel

| | |
|-----------------------|---------------|
| Hose serial | 40-1003326-B4 |
| Unit price | 192.90 ¢/L |
| Start tote | 573440 |
| End tote | 573740 |
| Vol. used for testing | 300 L |
| Q _{min} | 7 L/min |
| Q _{max} | 70 L/min |
| Max achievable rate | 55 L/min |
| Performance code | B |

In-service Inspection

| Run | V _{FD} | V _{REF} | E _{FD} (%) | E _D (%) |
|--------|-----------------|------------------|---------------------|--------------------|
| #1 | 100 | 100.20 | -0.20 | - |
| #2 | 100 | 100.25 | -0.25 | - |
| #3 | 100 | 100.20 | -0.20 | - |
| #4 | 15.03 | 15 | 0.20 | - |
| Preset | 100 | 100.25 | -0.25 | - |

Average error runs 1-3 (E_{AV}) -0.22 %

Anti-drain/Hose-dilation fuel vol. 10 mL

Compliance

| | |
|--|------|
| Checking facility for indicating devices | Pass |
| Zero setting | Pass |
| Price computing | Pass |
| Nozzle cut-off | Pass |
| Interlock | Pass |
| Pre-set indications | Pass |
| Overall result | Pass |

2/UPL91

| | |
|-----------------------|---------------|
| Hose serial | 40-1003326-A1 |
| Unit price | 219.90 ¢/L |
| Start tote | 326876 |
| End tote | 326921 |
| Vol. used for testing | 45 L |
| Q _{min} | 4 L/min |
| Q _{max} | 40 L/min |
| Max achievable rate | 38 L/min |
| Performance code | B |

In-service Inspection

| Run | V _{FD} | V _{REF} | E _{FD} (%) | E _D (%) |
|--------|-----------------|------------------|---------------------|--------------------|
| #1 | 15.01 | 15 | 0.07 | - |
| #2 | 15.02 | 15 | 0.13 | - |
| #3 | 15.02 | 15 | 0.13 | - |
| #4 | 15.02 | 15 | 0.13 | - |
| Preset | 15.02 | 15 | 0.13 | - |

Average error runs 1-3 (E_{AV}) 0.11 %

Anti-drain/Hose-dilation fuel vol. 12 mL

Compliance

| | |
|--|------|
| Checking facility for indicating devices | Pass |
| Zero setting | Pass |
| Price computing | Pass |
| Nozzle cut-off | Pass |
| Interlock | Pass |
| Pre-set indications | Pass |
| Overall result | Pass |

2/E-10

| | |
|-----------------------|---------------|
| Hose serial | 40-1003326-A2 |
| Unit price | 217.90 ¢/L |
| Start tote | 793989 |
| End tote | 794034 |
| Vol. used for testing | 45 L |
| Q _{min} | 4 L/min |
| Q _{max} | 40 L/min |
| Max achievable rate | 40 L/min |
| Performance code | B |

In-service Inspection

| Run | V _{FD} | V _{REF} | E _{FD} (%) | E _D (%) |
|--------|-----------------|------------------|---------------------|--------------------|
| #1 | 15.02 | 15 | 0.13 | - |
| #2 | 15.02 | 15 | 0.13 | - |
| #3 | 15.03 | 15 | 0.20 | - |
| #4 | 15.02 | 15 | 0.13 | - |
| Preset | 15.02 | 15 | 0.13 | - |

Average error runs 1-3 (E_{AV}) 0.15 %

Anti-drain/Hose-dilation fuel vol. 9 mL

Compliance

| | |
|--|------|
| Checking facility for indicating devices | Pass |
| Zero setting | Pass |
| Price computing | Pass |
| Nozzle cut-off | Pass |
| Interlock | Pass |
| Pre-set indications | Pass |
| Overall result | Pass |

2/PULP98

Hose serial 40-1003326-A3
Unit price 242.90 €/L
Start tote 262140
End tote 262260
Vol. used for testing 120 L
 Q_{min} 4 L/min
 Q_{max} 40 L/min
Max achievable rate 40 L/min
Performance code D

In-service Inspection

| Run | V _{FD} | V _{REF} | E _{FD} (%) | E _D (%) |
|--------|-----------------|------------------|---------------------|--------------------|
| #1 | 15.06 | 15 | 0.40 | - |
| #2 | 15.05 | 15 | 0.33 | - |
| #3 | 15.08 | 15 | 0.53 | - |
| #4 | 15.08 | 15 | 0.53 | - |
| Preset | 15.07 | 15 | 0.47 | - |

Average error runs 1-3 (E_{AV}) ✗ 0.42 %

Anti-drain/Hose-dilation fuel vol. -

Verification

INSTRUMENT VERIFIED UNDER THE NATIONAL MEASUREMENT ACT 1960

PET1234H4

| Run | V _{FD} | V _{REF} | E _{FD} (%) | E _D (%) |
|--------|-----------------|------------------|---------------------|--------------------|
| #1 | 15 | 15 | 0.00 | - |
| #2 | 15 | 15 | 0.00 | - |
| #3 | 15 | 15 | 0.00 | - |
| #4 | 15.01 | 15 | 0.07 | - |
| Preset | 15.02 | 15 | 0.13 | - |

Average error runs 1-3 (E_{AV}) 0.00 %

Anti-drain/Hose-dilation fuel vol. ✓ 8 mL

Existing verification mark ABC9876

Compliance

Checking facility for indicating devices ✓ Pass
Zero setting ✓ Pass
Price computing ✓ Pass
Nozzle cut-off ✓ Pass
Interlock ✓ Pass
Pre-set indications ✓ Pass
Overall result ✓ Pass

2/Premium Diesel

Hose serial 40-1003326-A4
Unit price 192.90 €/L
Start tote 406844
End tote 407144
Vol. used for testing 300 L
 Q_{min} 7 L/min
 Q_{max} 70 L/min
Max achievable rate 55 L/min
Performance code B

In-service Inspection

| Run | V _{FD} | V _{REF} | E _{FD} (%) | E _D (%) |
|--------|-----------------|------------------|---------------------|--------------------|
| #1 | 100 | 100.10 | -0.10 | - |
| #2 | 100 | 100.10 | -0.10 | - |
| #3 | 100 | 100.15 | -0.15 | - |
| #4 | 15.02 | 15 | 0.13 | - |
| Preset | 100 | 100.10 | -0.10 | - |

Average error runs 1-3 (E_{AV}) -0.12 %

Anti-drain/Hose-dilation fuel vol. ✓ 10 mL

Compliance

Checking facility for indicating devices ✓ Pass
Zero setting ✓ Pass
Price computing ✓ Pass
Nozzle cut-off ✓ Pass
Interlock ✓ Pass
Pre-set indications ✓ Pass
Overall result ✓ Pass