



## CERTIFICATE OF ANALYSIS N° PAS-183805

**VESSEL** : Silver Philippa  
**LOCATION** : ITC - Pasadena, TX  
**PRODUCT** : GASOLINE RON 97

**MOVEMENT** : Load  
**REF. NO.** : 9788981

| TK :                 | 01S   | Running | After Load      | Sample N° :    | 78 (2)            | 21-DEC-2023<br>Sampled at<br>04:15 |
|----------------------|---|---------|-----------------|----------------|-------------------|------------------------------------|
|                      |   |         |                 | <i>Minimum</i> | <i>Maximum</i>    | <i>Remarks</i>                     |
| ASTM D323            | RVP @ 100 °F                                    |         | 9.7 psi         |                | 10                | Pass                               |
| TK :                 | SS  | Running | After Load      | Sample N° :    | 79 (2)            | 21-DEC-2023<br>Sampled at<br>04:15 |
|                      |   |         |                 | <i>Minimum</i> | <i>Maximum</i>    | <i>Remarks</i>                     |
| ASTM D323            | RVP @ 100 °F                                    |         | 9.6 psi         |                | 10                | Pass                               |
| Volumetric Composite |   |         | After Load      | Sample N° :    | 80 (2)            | 21-DEC-2023<br>Sampled at<br>06:01 |
|                      |   |         |                 | <i>Minimum</i> | <i>Maximum</i>    | <i>Remarks</i>                     |
| ASTM D4052           | API Gravity @ 60°F                              |         | 63.6 °API       |                |                   |                                    |
| ASTM D4052           | Density @ 15°C                                  |         | 725.0 Kg/m3     | 720            | 780               | Pass                               |
| Visual               | Color   |         | Undyed          |                | Undyed            | Pass                               |
| ASTM D4176<br>(1A)   | Appearance                                      |         | Clear & Bright  |                | Clear &<br>Bright | Pass                               |
| ASTM D86             | Distillation of Petroleum Products (Evaporated) |         |                 |                |                   |                                    |
|                      | Initial Boiling Point                           |         | 28.7 °C         |                |                   |                                    |
|                      | 10%   |         | 50.4 °C         |                | 65                | Pass                               |
|                      | 50%   |         | 97.7 °C         | 77             | 118               | Pass                               |
|                      | 90%   |         | 134.7 °C        |                | 190               | Pass                               |
|                      | Final Boiling Point (End Point)                 |         | 196.3 °C        |                | 225               | Pass                               |
|                      | Residue   |         | 1.9 Vol. %      |                | 2                 | Pass                               |
| ASTM D4814           | Driveability Index (°C)                         |         | 503             |                | 580               | Pass                               |
| ASTM D323            | RVP @ 100 °F - Calc. Average                    |         | 9.6 psi         |                | 10                | Pass                               |
| ASTM D2699           | Octanes, RON                                    |         | 97.8 Rating     | 97             |                   | Pass                               |
| ASTM D2700           | Octanes, MON                                    |         | 88.1 Rating     | 87             |                   | Pass                               |
| ASTM D4814<br>(X1)   | Octanes, (R+M)/2                                |         | 93.0 Rating     | 93             |                   | Pass                               |
| ASTM D3606<br>(B)    | Benzene (Correlated to D5769)                   |         | 0.29 Vol. %     |                | 5                 | Pass                               |
| ASTM D5769           | Aromatics by GC-MS                              |         | 18.2 Vol. %     |                |                   |                                    |
| ASTM D7039           | Sulfur  |         | 9.7 ppm wt.     |                | 80                | Pass                               |
| ASTM D4952           | Doctor Test                                     |         | Negative        |                | Negative          | Pass                               |
| ASTM D3227           | Mercaptan Sulfur                                |         | <0.0003 Wt. %   |                | 0.0015            | Pass                               |
| ASTM D4815           | Oxygenates by GC                                |         |                 |                |                   |                                    |
|                      | Ethanol   |         | ND Wt. %        |                | 0.2               | Pass                               |
|                      | MTBE  |         | ND Wt. %        |                | 0.5               | Pass                               |
|                      | Oxygen  |         | ND Wt. %        |                | 0.35              | Pass                               |
| ASTM D130            | Copper Corrosion @ 50 °C (3 hrs)                |         | 1a              |                | 1b                | Pass                               |
| ASTM D381            | Gum, Solvent Washed                             |         | <0.5 mg/100mL   |                | 5                 | Pass                               |
| ASTM D3237           | Lead in Gasoline                                |         | <10.0 mg Pb/gal |                | 50                | Pass                               |
| ASTM D3231           | Phosphorous                                     |         | <0.20 mg/gal    |                | 5                 | Pass                               |
| Olfactory            | Odor  |         | Marketable      |                | Marketable        | Pass                               |



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**MOVEMENT** : Load  
**REF. NO.** : 9788981

| Volumetric Composite |                     | After Load | Sample N° :    | 80 (2)         | 21-DEC-2023<br>Sampled at<br>06:01 |
|----------------------|---------------------|------------|----------------|----------------|------------------------------------|
|                      |                     |            | <i>Minimum</i> | <i>Maximum</i> | <i>Remarks</i>                     |
| ASTM D525            | Oxidation Stability | >240 min   | >240           |                | Pass                               |
| ASTM D3831           | Manganese (as MMT)  | ND mg/L    |                | ND             |                                    |

<sup>(2)</sup> Samples taken as per Standard Practice for Manual Sampling of Petroleum and Petroleum Products (ASTM D4057 / API MPMS Chapter 8.1) via a Closed System Sampler. Customer is advised that, due to its limitations, the samples may not fully represent the entire cargo.

All testing is performed on premises by Camin Cargo Control and in accordance to the latest referenced test method unless specifically stated otherwise.

The results apply to the samples as received and specifically to the items listed on this certificate.

Data contained in this report is confidential to the addressee and shall not be disclosed to any other party without their approval. This report may not be reproduced except in full without the written consent of the Camin Cargo Control.

N.D.- None Detected: Below Lower Reporting Limit and/or Lower Detection Limit as per applicable test method and/or instrument capability.

The statement of conformity (i.e. Pass/Fail) within this document does not consider measurement uncertainty and applies the decision rules of Pass if the values are equal or are within limits and Fail if outside of limits. Limits are defined by the product’s recognized specification or as determined by written client contract and/or individual job request.

Zachary Nolte / Laboratory Shift Leader