Australian Government
Department of Industry, Science and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S872

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

Ampol Model Vynamic POS FCx Control System for Fuel Dispensers for Motor Vehicles

submitted by Ampol Australia Petroleum Pty Ltd
29 Bourke Road
Alexandria NSW 2015

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval has been granted with reference to document NMI R 117, *Measuring Systems for Liquids Other than Water*, dated June 2011.

This approval is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – certificate issued	20/11/25

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S872' and only by persons authorised by the submittor.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

Special

Certain aspects of this instrument (in particular transaction record printing formats) are able to be configured by the user. Whilst NMI believes that acceptable formats can be achieved for typical basic sales modes, it is also possible for the instrument to be configured to produce unacceptable formats, and use of some formats may be inappropriate for different sales modes. It is the responsibility of the user to ensure that acceptable and appropriate formats are used in any particular situation

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.

Darryl Hines
Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No S872

1. Description of Pattern approved 20/11/25

An Ampol model Vynamic FCx point of sale control system to provide an attended self-service facility for compatible (#) NMI approved fuel dispensers for motor vehicles. The fuel dispensers are controlled by the Vynamic FCx point of sale system through the DOMS model PSS5000 Controller (as described in approval NMI S748).

1.1 Key Features

- The system is approved for a climate-controlled environment between 5°C and 30°C.
- The system can provide a self-serve arrangement for compatible (#) NMI-approved fuel dispensers.
- The system allows post-payment or pre-payment deliveries; in the latter case the fuel dispenser must incorporate a pre-set device.
- The system allows up to two transactions per fuel dispenser, i.e. current sale on the fuel dispenser and a stored transaction.
- The system may facilitate mixed-mode operation for unattended self-service mode. A control system that is approved for unattended self-service operation must be interfaced to the Vynamic FCx point of sale control system for operation in this mode.
- Additional POS consoles may be interfaced for multi-attended self-serve operation.
- The nominal supply voltage is 240 V AC.

(#) 'Compatible' is defined to mean that no additions/changes to the hardware/software specified in this approval are required for satisfactory operation of the system.

1.2 System Description

The Ampol model Vynamic FCx point of sale (POS) control system (Figure 1) comprises:

(i) Point of Sale (POS) Console

The point of sale console comprises an NCR CX7ii model 7772 or equivalent (*) PC-based device using a Microsoft Windows operating system running Vynamic FCx version 25.x.x.x The software version number is displayed by selecting the Admin Menu button (four squares at top right), scrolling to bottom and selecting "About" under Settings.

(ii) Fuel Dispenser Controller

A DOMS PSS5000 controller and PIPI display as described in the documentation of approval NMI S748, provide interface and data acquisition between the fuel dispensers and the Point of Sale console and allow the recall of the stored transactions under power failure condition.

(iii) Uninterruptible Power Supply (UPS)

A UPS unit that supports USB/HID power device class standard must be included to provide operation under power failure condition. The UPS is interfaced to the DOMS PSS5000 controller as described in the documentation of approval NMI S748.

(iv) Electronic Indications

The NCR CX7ii model 7772 POS console has an integral touch sensitive display to provide an indication for the operator (Figure 2).

An NCR model XL10W(5910) display or equivalent (*) is connected to the POS Console and provides an indication for the customer (Figure 3).

(v) Printing Devices

An Epson model TM-T88V receipt printer or equivalent (*) is connected to the POS console. This also acts as the audit trail printer. A typical record is shown in Figure 4. In a configuration with multiple POS consoles, the audit trail printer is connected to each individual console.

(vi) Additional System Facilities

In addition, the Vynamic FCx of sale control system may include point of sale facilities including cash drawers, a magnetic card or barcode reader and EFT facility. The facilities shall not interact with the console in a way that would cause an incorrect indication of the measured volume or price.

(vii) Server Computer and Forecourt Controller

The server computer comprises an NCR model N4000 or equivalent (*) computer and operates as a database server for the POS consoles.

(*) 'Equivalent' is defined to mean other proprietary equipment of the same or better specifications requiring no changes to software for satisfactory operation of the complete system.

1.3 Descriptive Markings

The POS controller is marked in a clear and permanent manner, in one location, with the following information:

Submittor's name or mark	……..
Serial number or other unique identifier	……..
Year of manufacture	……..
Pattern approval number	NMI S872

1.4 Verification Provision

Provision is made for the application of a verification mark.

2. Description of Variant 1 approved on 20/11/25

The Ampol model Vynamic FCx point of sale control system operating with the Ampol Mobile FuelPay system which is configured in mixed-mode operation, providing registered customers the ability to authorise and dispense selected fuel products in an unattended self-service mode.

The unattended self-service facility is provided by the Ampol Mobile FuelPay application communicating through internet connected cloud services to the Server Computer and Forecourt Controller, as shown in Figure 5.

The FuelPay application operates on a compatible internet connected device, e.g. an Android or Apple iOS smartphone, and allows authorisation of the fuel dispensers by registered customers with an Ampol Mobile FuelPay customer account.

The FuelPay application identifies the customer site location using GPS co-ordinates to determine the store location and availability of fuel dispensers for authorisation. Customers select a fuel pump and the dispenser is authorised to dispense providing all applicable criteria is met (Figure 6). Upon the completion of the fuel delivery the value of the fuel delivered is then charged to the customers registered account and payment method (Figure 7).

The FuelPay application shall not interact with the console in a way that would cause an incorrect indication of the measured volume or price.

Note: No printed receipt is provided by the FuelPay application. A receipt is available for printing via the customers registered email or upon request from the site management (Figure 8).

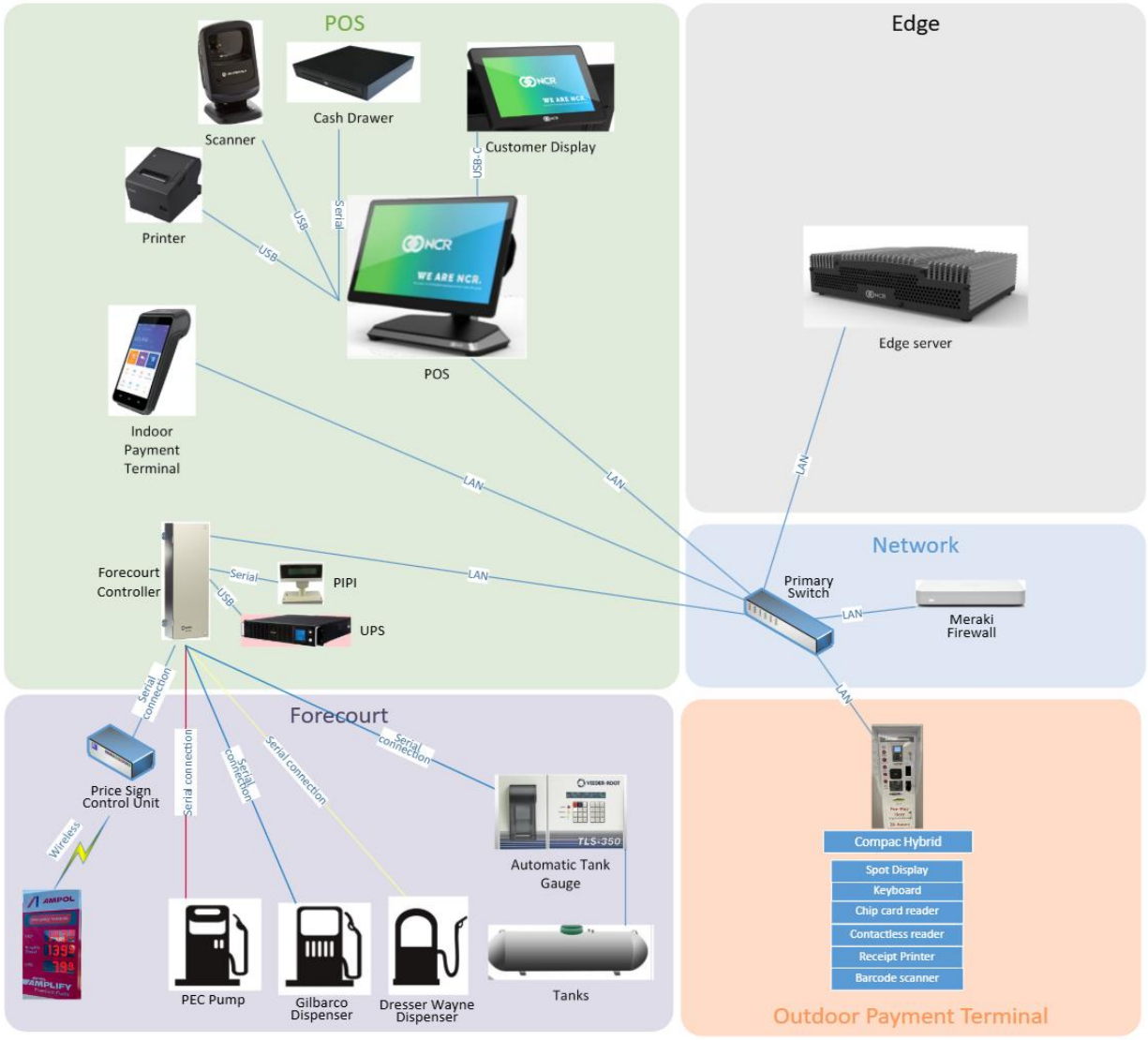
TEST PROCEDURE No S872

Instruments shall be tested in conjunction with any tests specified in the approval documentation for the instruments to which the pattern is connected, as appropriate, and in accordance with the National Instrument Test Procedures.

Points 2-4 are required at commissioning, thereafter they may be conducted at the discretion of the inspecting officer.

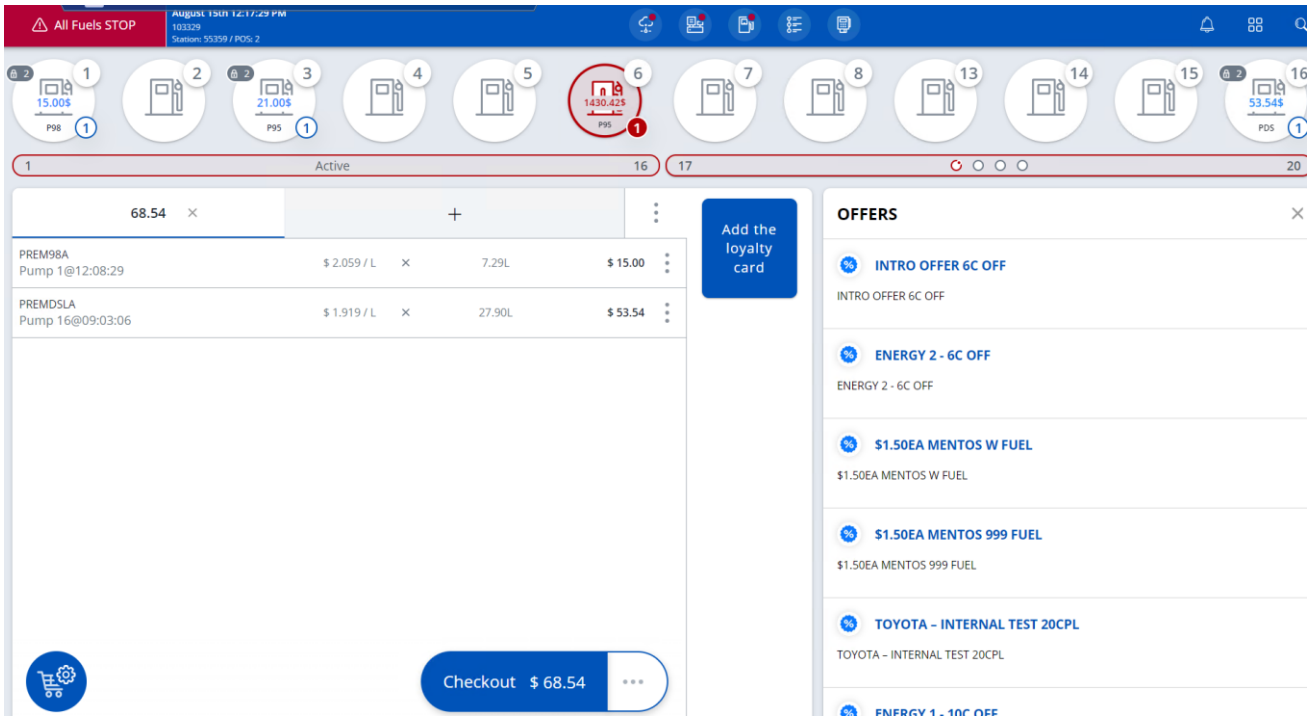
1. Check the software version number.
2. Check that the unit price change for the grade of fuel is implemented to the allocated fuel dispensers when they are available for authorisation.
3. Check that the system identifies, displays and prints the correct data for the corresponding number allocated to the fuel dispenser.
4. Authorise a delivery and check that the delivery details on the fuel dispenser agree with the receipt obtained.
5. Check that when the PIPI is disconnected from the DOMS PSS5000 controller (simulation of fault), the fuel dispenser cannot be authorised for a second delivery unless the transaction for the first delivery has been completed.

FIGURE S872 – 1



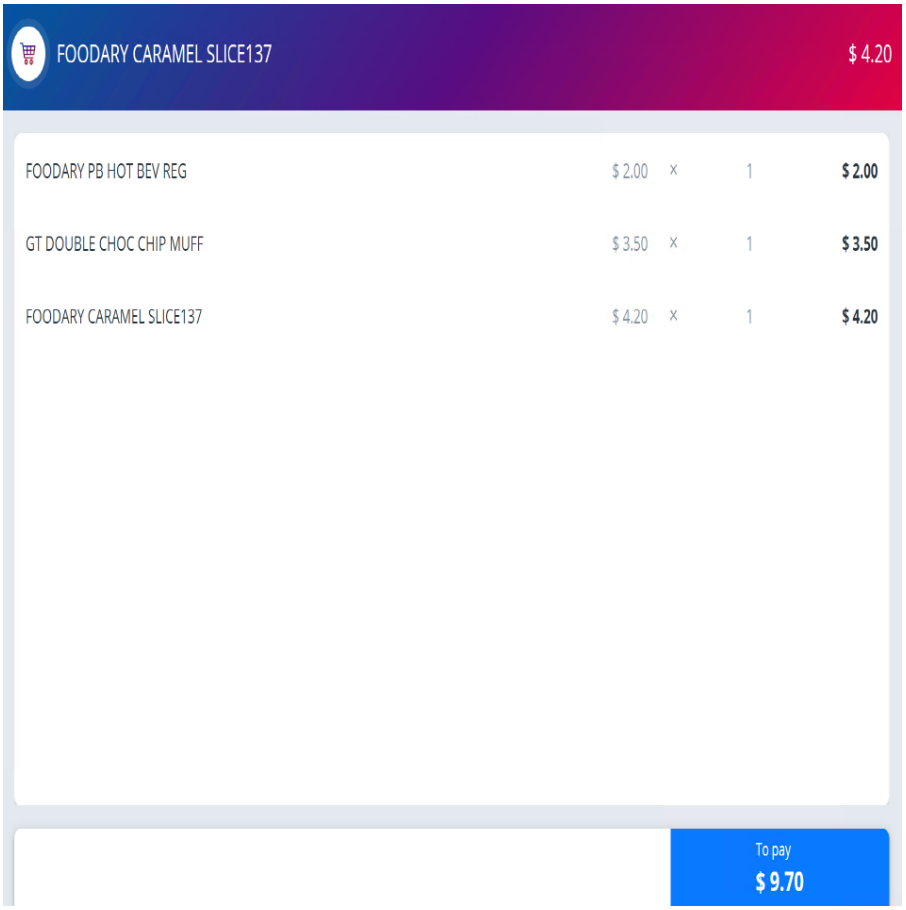
Point of Sale (POS) System

FIGURE S872 – 2



Typical Operator Display

FIGURE S872 – 3



Typical Customer Display

FIGURE S872 – 4

AMPOL

Ampol Retail Pty Ltd
Kewdale (Ampol Retail)
Cnr Kewdale Rd & Fenton St
ABN Number: 64 000 175 342
"A" Denotes GST Inclusive Item

Tax invoice
Tax. Inv.No : 1055359250400175

6.50 L #3
PREMDSLA $ 12.28 A
1.889 $ / L
20250407 140220
ENERGY 1 - 10C OFF $ -0.65 A
IGNORE NOT CHARGED AP1 $ 0.00 A

Total $ 11.63
Cash $ 11.65
Rounding difference $ 0.02

10.00 % GST A $ 1.06
Total net A $ 10.57

Cashier No: 1047200

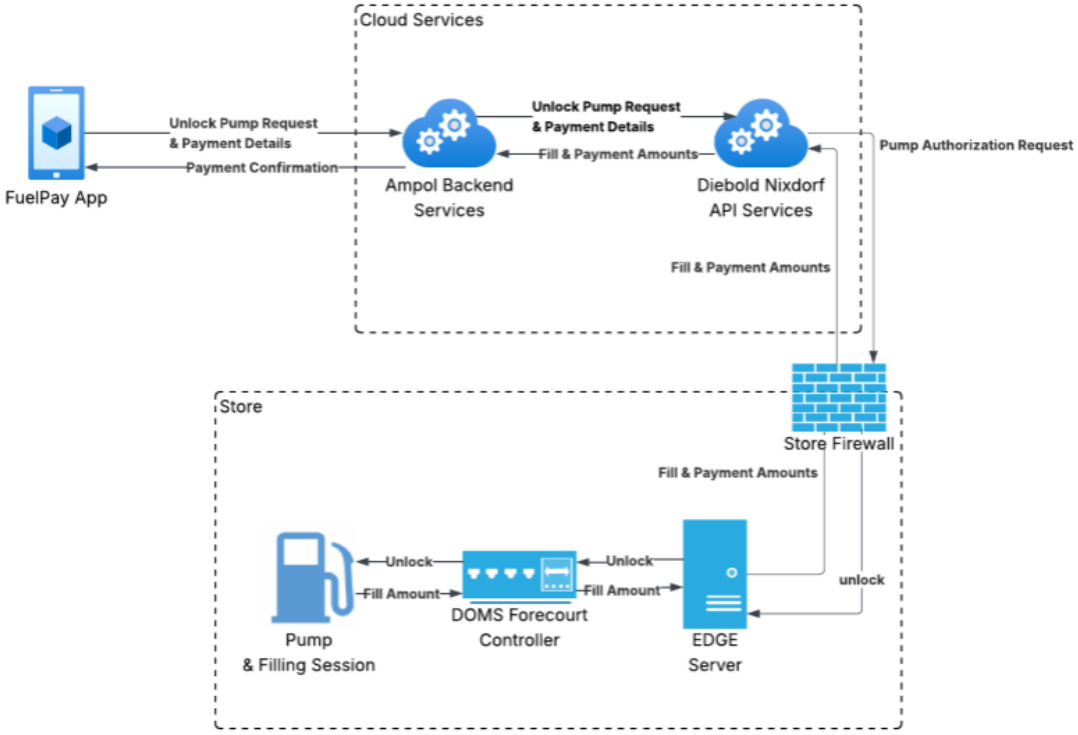
Date	Time	POS	Shift
7/4/2025	2:01pm	2	59

How did we do today? Let us know via
ampolfeedback@ampol.com.au.
or call us on 1800 240 398.
Store:55359

1055359250400175

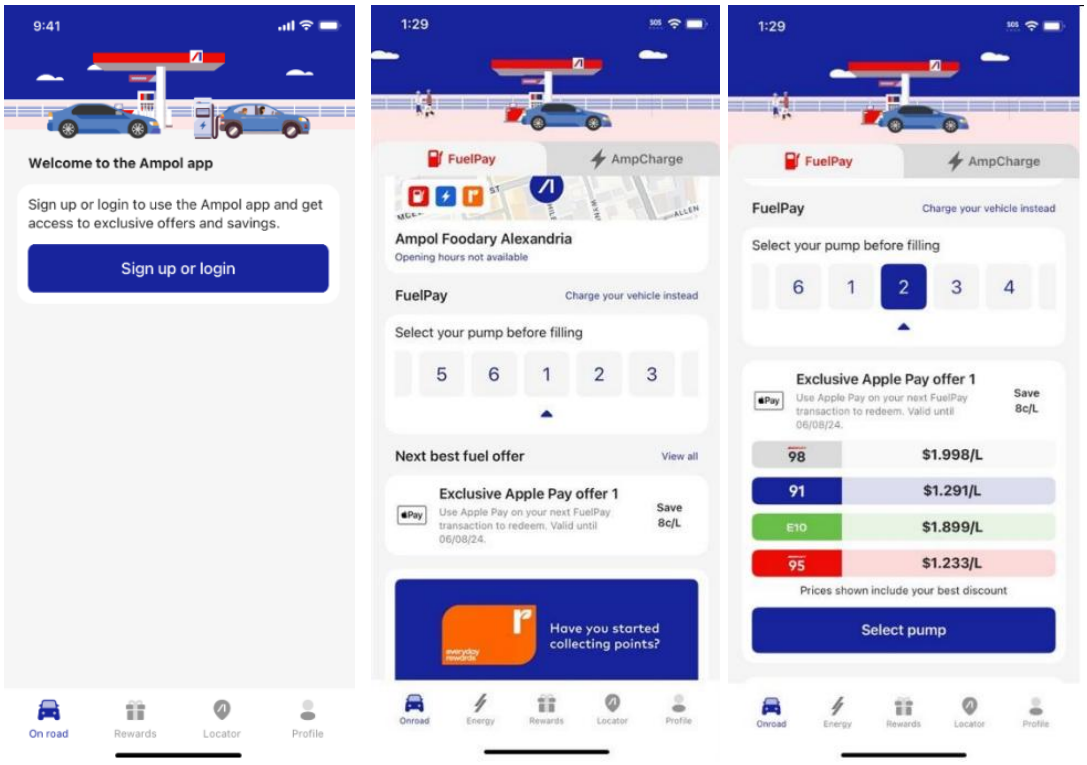
A Typical Receipt

FIGURE S872 – 5



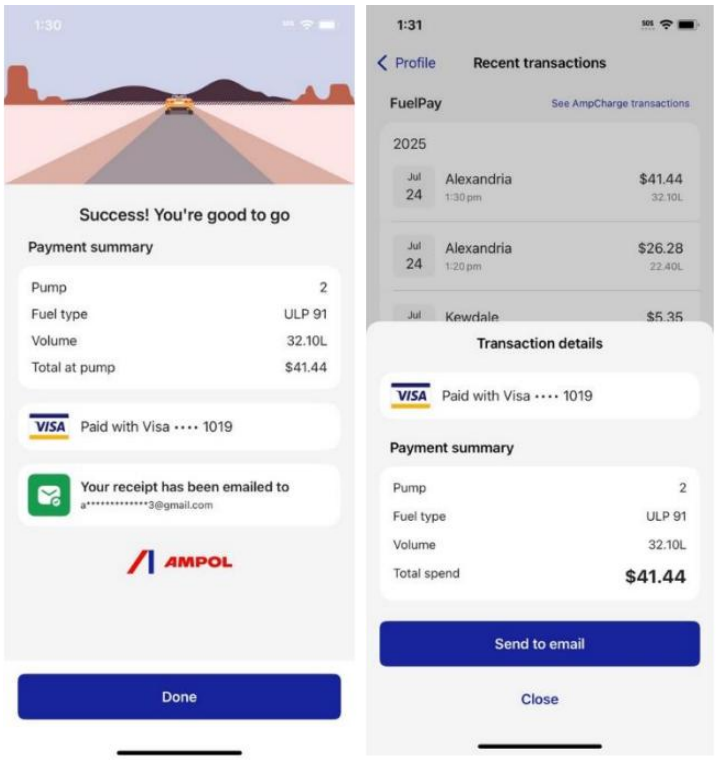
Ampol Mobile FuelPay configuration (Variant 1)

FIGURE S872 – 6



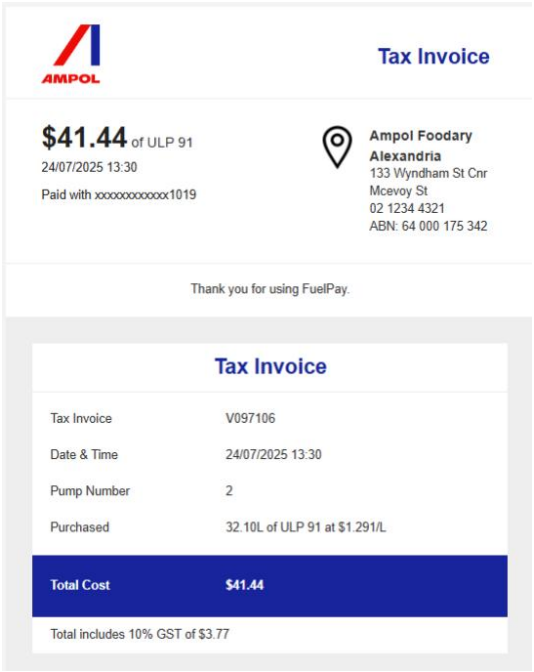
Ampol Mobile FuelPay mobile application typical screenshots (Variant 1)

FIGURE S872 – 7



Typical transaction record available in the FuelPay mobile application (Variant 1)

FIGURE S872 – 8



Typical transaction record emailed to the registered customer (Variant 1)

~ End of Document ~