

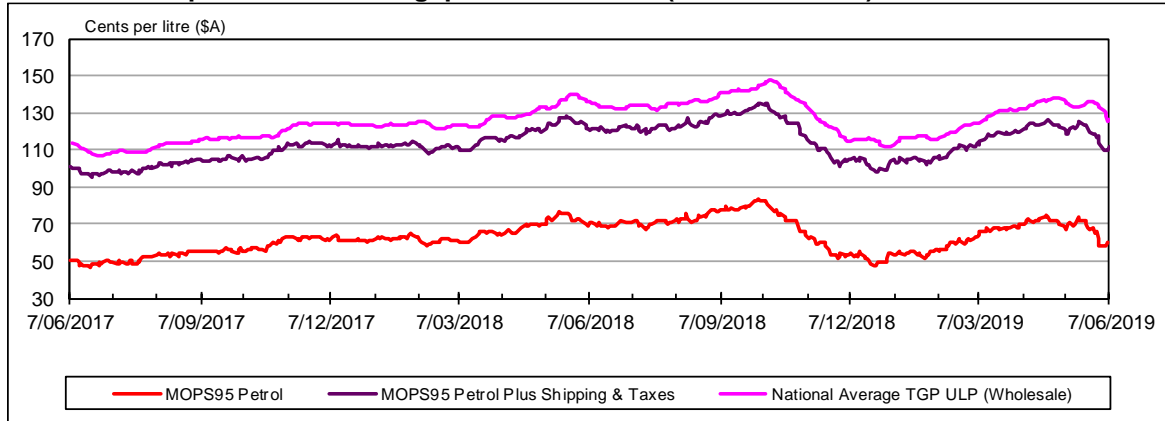
## FACTS ABOUT THE SINGAPORE-WHOLESALE 'PRICE LAG'

*Explaining the Time Lag between Changes in Singapore Prices and Changes in Australian Wholesale Petrol & Diesel Prices*

Generally, there is a **short time lag** of 1-2 weeks between changes in Singapore prices and changes in Australian wholesale prices. The lag can be seen in **Figure 1** below.

⇒ See the slight delay in the peaks and troughs in the **pink line** (National Average ULP TGP) compared to the **purple line** (MOP95 Petrol plus Shipping & Taxes).

**FIGURE 1: Comparison of the Singapore Petrol Price (MOP95 Petrol) with Australian ULP TGPs**



Note: MOP95 Petrol prices and Shipping rates are provided by S&P Global, Platts.

Importantly, this time lag occurs whether **prices are going up** (when the lag slows price rises to consumers) or **prices are going down** (when the lag delays price falls).

The time lag is a result of using a **rolling average** of Singapore prices.

⇒ Rolling averages are part of wholesale pricing methodology - very similar to that used by the ACCC when wholesale prices were regulated by government. This pricing methodology is called import parity pricing (IPP). Use of rolling averages **smooths day-to-day price volatility**.

**Not accounting for this time lag, introduced by the rolling average, leads to incorrect conclusions** about how Singapore prices flow through to prices in Australia.

The **very close relationship** between changes in MOP95 Petrol and changes in Australian TGPs can be seen by applying a rolling average to the MOP95 Petrol data (a 7 day rolling average is used in **Figure 2** to illustrate this).

**FIGURE 2: Comparison of 7 Day Rolling Average of MOP95 Petrol with Australian ULP TGP**

