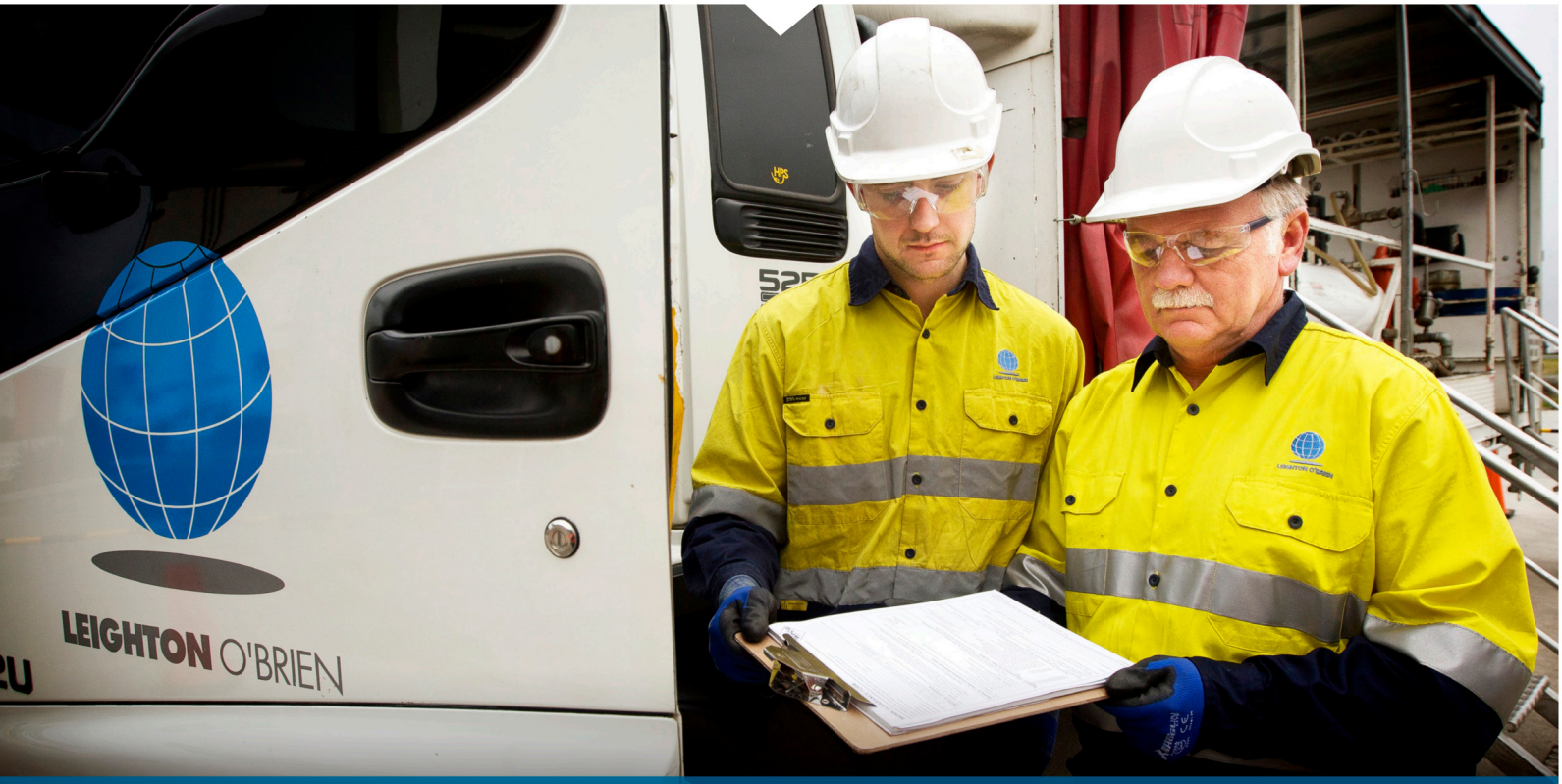
LEIGHTON O'BRIEN

FUEL QUALITY MONITORING

A PROACTIVE APPROACH TO PRODUCT QUALITY



Contaminated fuel is a growing issue for today's service station owner and operator. It can have a major impact on sales, your maintenance budget, and your brand reputation.

Newer fuel formulas like biodiesel and ethanol are more susceptible to contamination as they can hold more moisture than standard fuels since they have a higher water retaining capacity. This then causes problems such as water accumulation and microbial growth in fuel tanks and transport equipment.

Modern vehicles also require fuels that meet high quality standards. And, with heightened consumer awareness about contaminated fuel, if you're unsure of the product quality you're serving your customers, you're at risk of:

- Vehicle engine failure, insurance claims and costly repairs
- Your brand splashed across the media
- Lost customers to the petrol station down the road
- Higher maintenance spend on blocked filters, pumps and dispensers
- Slow flow and pre-set pumps running over
- Environmental pollution
- Accelerated corrosion in your fuel storage tanks
- Reduced lifespan of your tank system and asset value when it's time to sell
- Non-compliance with Australian fuel quality

Diesel before and after

Unleaded petrol before and after

Premium unleaded petrol before and after

Our experience from cleaning thousands of underground tanks indicates that many fuel storage systems contain some form of contamination, whether it be water in the tank, rust particulate or bacterial sludge.

WHAT CAUSES FUEL QUALITY ISSUES?

- Ageing and poorly maintained fuel systems, especially steel tanks
- Storage tank integrity issues causing water ingress and foreign material into the tank system from loose caps and fittings
- Low turnover of product
- Substituted or illegal product
- Cross contamination from deliveries
- Tank conversions
- Bacteria
- Poor corrosion protection practices
- Transport equipment not cleaned regularly
- Vapour return lines
- Fill box drain line return

WHAT'S THE SOLUTION?

Fuel contamination is a PREVENTABLE issue. Leighton O'Brien's Fuel Quality Monitoring Program provides a proactive approach to managing fuel quality.

1. We undertake fuel sampling from the tank floor via the most accessible port (usually the dip point), as well as a bacterial diesel sample.
2. The sample is subject to appearance testing in accordance with ASTM standards and included in a Fuel Quality Sample Report comprising a particulate and water contamination rating, and a haze rating.
3. For any tank systems that don't meet ASTM standards and fuel contamination exists, the tank undergoes a multi-stage cleaning process to remove water and particulate matter from 100% of the tank floor which is pumped into a holding tank to settle. The fuel is treated using a filtration and conditioning process and restored to 2 microns until it is clean and bright – removing only waste, not fuel, from your site.
4. Where any biological activity exists, the tanks are treated with biocide.
5. We provide you with a Tank Cleaning and Fuel Restoration Report and periodic sampling to monitor fuel quality.
6. We conduct precision integrity testing if your tank shows signs of water ingress in the future.

Don't wait until it's too late. Call us for a free quote on 1800 627 567 (Australia only) or email fieldservices@leightonobrien.com