

Sustainability Initiative: Biodiesel

Rozelle Interchange
WestConnex



Background

The Rozelle Interchange Project using B5 biodiesel to replace a portion of our diesel consumption. B5 is a low-level biofuel blend consisting of 5% biofuel and 95% petroleum diesel fuel. Using biodiesel is one way of reducing the Project's greenhouse gas emission footprint and will help support John Holland and [CPB Contractor's](#) environment and climate change strategies.

Compatibility

- B5 has been sold and used in Australia for many years and is compatible with essentially all diesel vehicles. In fact, under Australia fuel quality standards (Fuel Quality Standards (Automotive Diesel) Determination 2019), the diesel you buy from a service station can legally contain up to 5% biofuel, while still being sold as ordinary diesel.
- Every original equipment manufacturer (OEM) of diesel vehicles already approves blends of up to B5 in their vehicles without voiding manufacturer's warranties. One of our largest suppliers of plant, Coates Hire has confirmed that all of their plant and equipment can accept B5.
- B5 is strictly regulated by the Fuel Quality Standards (Biodiesel) Determination 2019, and its quality is assured by a certification scheme.
- Concerns regarding biodiesel impacts on plant and equipment performance typically relate to blends of B20 (20% biofuel) and above, and/or non-certified sources of biodiesel.

Benefits

Environmental:

- Climate change: For every 100L of B5, an estimated 13.5kg of CO₂e is saved compared to B0 (pure diesel).

Safety:

- Air quality/hazard reduction: B5 produces 12% less carbon monoxide emissions and 5% fewer volatile organic compounds. It also has a higher flashpoint than mineral diesel and is less combustible.

Social:

- Job creation: B5 supports regional industrial development and job creation through the feedstock production and refining process.

Frequently Asked Questions

Will biodiesel use affect my engine?

Studies of B20 and lower-level blends in approved engines have not demonstrated negative long-term effects.

Will biodiesel plug my filters?

Biodiesel has a solvent effect. It cleans your vehicle's fuel system and could release deposits accumulated from previous diesel fuel use. The release of deposits may initially clog filters, so you should be proactive in checking for and replacing clogged fuel filters. Once the build-up is eliminated, you can return to your regular replacement schedule. This issue is less common with B20 and lower-level blends, and rarely occurs in B5 blends.

I still have questions! Who can I contact?

You can contact JHCPB's sustainability team (sustainability@rozelleinterchange.com.au) or your site environment advisor.

