

HRM Experiences with Biodiesel

Up in Smoke? Not...



**Julian Boyle, P.Eng.
Energy Engineer
Halifax Regional Municipality**

HRM Experiences with Biodiesel

A Short history...

September 2003 Wilson Fuels approaches HRM Transit

December 2003 a separate bio-fuel delivery system installed



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20 buses fro fleet of 200 selected to burn biodiesel
40,000 litres/month on old/new and different engines

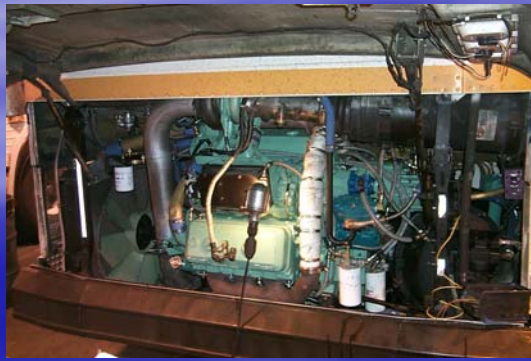


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Preliminary Opacity tests showed encouraging results

Driver's commented on the "good" performance of buses

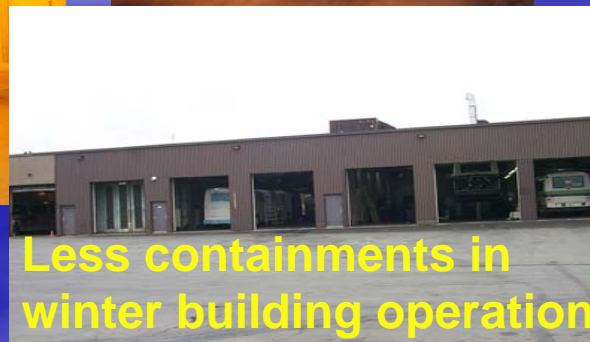
Teardown showed no difference



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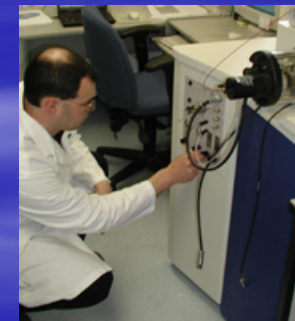
Other benefits of biodiesel use...

- Potential for improved Indoor Air Quality (IAQ)
Through reduced CO and Elemental Carbon
- Potential environmental benefits with existing
underground fuel tanks and spills



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- April 2004 negative information about biodiesel from fuel competitors
- HRM engages independent consultant
- April 2004 HRM staff visit ONC Plant in Mulgrave, NS



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June 2004 Environment Canada Emissions Research Division Conducts Field Test



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2 buses – 8.5 km test, 3 times
Diesel and B20



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June 2004 Environment Canada Emissions Research Division Field Test Results for B20

	Bus #1	Bus #2
CO Reduction	-28 %	-18 %
CO2 Reduction	+5 %	-3 %
THC	+7.5 %	-19 %
TPM	-15 %	-9 %

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August 2004 HRM Tenders Fuel Contract with Bio Alternative with amended ASTM Biodiesel Specification

September 2004 HRM starts B100 testing in buildings



Future of Biodiesel in the Halifax Regional Municipality ...

FLEET – proven to be a seamless operation...
7.5 million litres per year of B20
= GHG reduction of 4250 tonnes (CO₂e)

* With the possibility to increase to B50 mix during summer months.



BUILDINGS – with some handling precautions...
3 million litres per year, half - B20, half - B100
= GHG reduction of 5000 tonnes (CO₂e)

For all HRM Offices, Police Stations, Libraries, Pools, Fire Stations, etc, etc



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Thank You!

Julian Boyle – Halifax Regional Municipality

(902) 490-7115

boylej@halifax.ca