



CLD500

Fast Response NOx Analyzer

Application Note: CLD05v01

Mobile On-board NO - Ford Galaxy

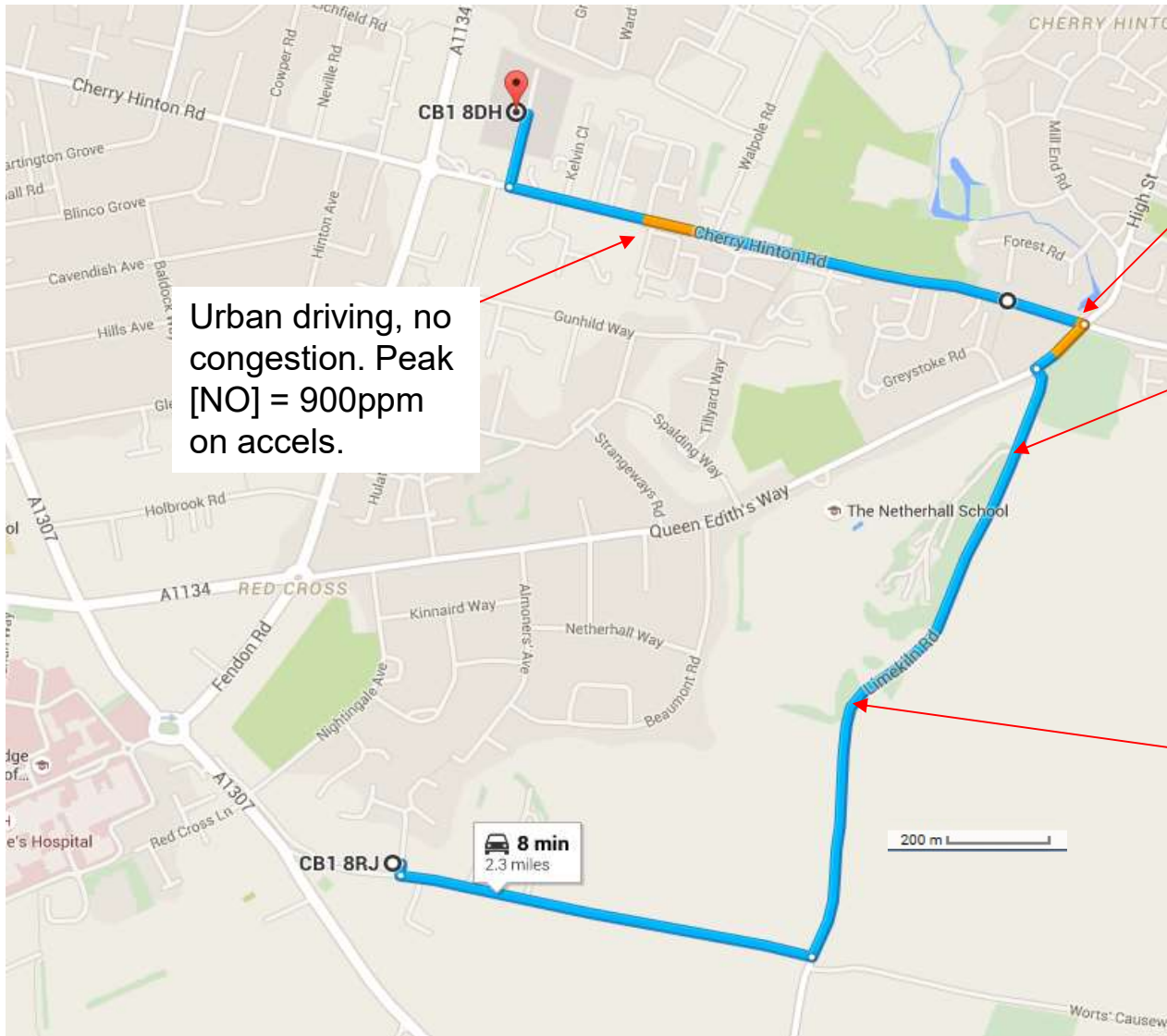
View more at [cambustion.com](https://www.cambustion.com)



CLD500 fast NOx analyzer
Configuration for mobile [NO] sampling
Ford Galaxy Diesel (Euro V) - summary

Mark Peckham

The route



Video/audio of on-board data

<https://www.youtube.com/watch?v=97tzOUUlxgg>

- View the above video with audio on as engine time correlates well with NO emissions
- Note [NO] spikes on accelerations quickly returns to zero during decelerations
- [NO] correlates with calculated load from OBD port (not shown here)
- Relatively large exhaust system and mufflers is the time response limit (analyzer much faster than this)

Vehicle summary



* Illustration shows model only

S-Max/Galaxy 2006-, 2.0L Duratorq DOHC(150/163PS)-DW10C, Panther Black (Metallic)

VIN Number: WF0MXXGBWMBM18352

Registration Number: EJ61PVZ

First Registration Date: 06.01.2012

Registration Country: GB

Type Approval Number (TAN): E13*2001/116*0185

Primary Features

Build Date:	06.12.2011
Vehicle Line:	S-Max/Galaxy 2006-
Body Style:	5 Door LMV
Version:	Series 50
Engine:	2.0L Duratorq DOHC(150/163PS)-DW10C
Transmission:	6 Speed Manual Transaxle - MMT6
Drive:	RHD FWD
Axle Ratio:	4.063/2.955
Emission:	Stage V Emissions
Air Conditioning:	Dual Zone Auto Temp Control A/C
Territory:	(+)"GB"
Paint:	Panther Black (Metallic)
Interior Fabric:	Prada/Lux / Ebony

Direct tailpipe sampling



Changes to standard fast CLD500

- Smaller vacuum pump (to make power consumption < 500W)
- Single channel
- Small cabinet enclosure
- 600W 12V-230V inverter
- A suitable battery (in this case 70Ah)
- Long sample probe
- Sample filter (optional)

More information...

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