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

Mark Peckham
The route

Urban driving, no congestion. Peak [NO] = 900ppm on accels.

Right turn traffic lights at 1:43 on following video

Uphill gradient 2:20

Downhill gradient 3:20
Video/audio of on-board data

https://www.youtube.com/watch?v=97tzOUuIxxg

• 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**

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

VIN Number: WF0MXGBWMBM18352  
Registration Number: EJ61PVZ  
First Registration Date: 06.01.2012  
Registration Country: GB  
Type Approval Number (TAN): E13*2001/116*0185

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