|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Parameter** | **Ignition on - engine not running** | **Engine Running @ idle** | **Engine Running @ "2500"rpm** | **Comments** |
| Throttle Angle | 4⁰TV | 5⁰TV | 4⁰TV |  |
| Throttle potentiometer voltage | 0.6V | 0.6V | 0.7V |  |
| Throttle valve status | Closed | Open | Open |  |
| Aircon Fan Request | Not Requested |   |   | Not fitted |
| Ignition switch | On | On | On |  |
| Aircon Clutch Request | Not Requested |   |   | Not fitted |
| Drive/Neutral Status | Neutral | not measured | not measured |  |
| Security Input | Low | not measured | not measured |  |
| Aircon Switch | Off |   |   | Not fitted |
| Alternate Aircon Fan Request | Not Requested |   |   | Not fitted |
| Intake Manifold Pressure | 100kPa | 25kPa | 24kPa |  |
| Stepper Position | 78steps | 90 steps | 96 steps |  |
| Idle Error | 0 RPM | 1 RPM | 1712 RPM | Don't understand what this means |
| Engine Speed | 0 RPM | 871 RPM | 2610 RPM |  |
| Vehicle Speed | 0 KPH | 0 KPH | 0 KPH |  |
| Coolant Temperature | 87⁰C | 98⁰C | 97⁰C |  |
| Oil Temperature | 47⁰C | 87⁰C | 87⁰C |  |
| Intake Air Temperature | 44⁰C | 60⁰C | 58⁰C |  |
| Ambient Air Temperature | 45⁰C | 68⁰C | 66⁰C |  |
| Fuel Temperature | "-248⁰C | "-248⁰C | "-248⁰C | Known error as no fuel temp sensor fitted |
| Battery Voltage | 11.7V | 13.6V | 13.5V |  |
| Crankshaft Signal | invalid | okay | okay |  |
| Camshaft Signal | invalid | okay | okay |  |
| High Speed Sync Loss | okay | not measured | not measured |  |
| Cam Input History | Input was low | not measured | not measured |  |
| Cam Position | 65535⁰ | 0⁰ | 1⁰ | Presumably this will depend on where the cam is when the data was captured |
| Crank Position | 6553.0⁰ | 0.9⁰ | 3.3⁰ | Presumably this will depend on where the crank is when the data was captured |
| Coil 1 Charging Time | 3855 uS | 1285 uS | 1285 uS | Would like to know expected values for these  |
| Coil 2 Charging Time | 4025 uS | 1550 uS | 1575 uS | and what it means |
| Injector Firing Interval | 180.0⁰ | 720.0⁰ | 720.0⁰ |   |
| Injector Pulsewidth | 15.2 mS | 2.1 mS | 1.8 mS |   |
| Injector Deadtime | 1.1 mS | 0.8 mS | 0.8 mS |   |
| Fueling Feedback Correction Bank 1 | 100% | 98.50% | 101.10% |  |
| Oxygen Sensor Voltage Bank 1 | 0.11V | 0.89V | 0.11V | Would like to know expected values |
| Fueling Feedback Correction Bank 2 | 100% |   |   | Not Fitted |
| Oxygen Sensor Voltage Bank 2 | 0.00V |   |   | Not Fitted |
| Oxygen Sensor State Bank 1 | inactive | Active | Active |  |
| Oxygen Sensor State Bank 2 | inactive | Inactive | Inactive | Not fitted |
| Requested Cam Period | 225.0⁰ | 225.0⁰ | 240.1⁰ | Would like to know expected values for these  |
| Measured Cam Period | 0.0⁰ | 223.4⁰ | not measured | and what it means |
| Inlet Valve Open Angle | 0.0⁰ | 717.0⁰ | 709.2⁰ |   |
| Inlet Valve Closed Angle | 0.0⁰ | 220.4⁰ | 230.5⁰ |   |
| Closed Loop Idle Control Status | Not Active | Active | not measured |  |
| Idle Speed Control Test Status | Not Active | Not Active | not measured |  |
| Throttle Status | Closed | Closed | not measured |  |
| Engine Cranking Status | Not Cranking | Not Cranking | Not Cranking |  |
| Engine Started Status | Not Started | Started | Started |  |
| Engine Stopped Status | Stopped | Not Measured | Not Measured |  |
| Overrun Fuel Circuit Status | Not Active | Not Active | Not Measured |  |
| High Speed Fuel Cut Off Status | Not Active | Not Active | Not Measured |  |
| Fuel Pump | Off | On | On |  |
| MIL Lamp | Off | Off | Off |  |
| Aircon Clutch | Off |   |   | Not Fitted |
| Radiator Fan | Off | Off | Off |  |
| Auxilliary Fan | Off | Off | Off |  |
| O2 Sensor Heater | Off | On | On |  |
| Engine Fan | Off | Off | Off |  |
| Purge Valve Duty Cycle | 0% | 0.00% | not measured |  |
| Cruise Disable | Off | Off | Off |  |