|  |  |
| --- | --- |
| **Service Date:** At 08:40 On November 12 2024 | **Customer name:** Adam Cameron |
| **Dealer name:** Northside Marine | **Number of engines:** 1 |
| **Comment:** 20 hr service @ 20 hrs |  |

|  |  |
| --- | --- |
| **Engine Operating Hours According to Engine Speed** | **Record of Engine Oil Exchange**  No engine oil exchange records to display.  **Engine Record**  No engine records to display. |

**Diagnosis**

No diagnosis records to display.

**Engine Monitor**

|  |  |
| --- | --- |
| **Monitor Item** | **Value** |
| Engine speed | 804 |
| Intake air pressure | 47.88 |
| Intake air pressure | 14.49 |
| Atmospheric pressure | 1016.1 |
| Atmospheric pressure | 30.1 |
| Ignition timing | BTDC 4 |
| Battery voltage | 14.17 |
| TPS voltage | 0.684 |
| Throttle valve opening angle | -0.4 |
| ISC valve opening angle | 68 |
| Fuel injection duration | 2.65 |
| Intake air temperature | 24.4 |
| Intake air temperature | 75.8 |
| Engine temperature | 26.5 |
| Engine temperature | 80.0 |
| Oil pressure | 450.8 |
| Oil pressure | 66.7 |
| Engine shut-off switch | OFF |
| Shift position switch | ON |
| Multi-engine system | OFF |
| Main switch | ON |
| Thermo switch | OFF |
| Shift cut-off switch | OFF |
| A/D(CH1) | 0.00 |
| A/D(CH2) | 0.00 |
| A/D(CH3) | 0.00 |
| A/D(CH4) | 0.01 |

**Diagnosis Record**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item** | **Position** | **Occurred** | **Code** |
| Item | Item | Position | Position |

**Data Comparison Graph**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Time** | **Unit** | **Engine Speed [r/min]** | **Battery Voltage [V]** | **TPS Voltage [V]** | **Cooling Water Temp [°C]** | **Intake Air Pressure [kPa]** |
| -13 | Min | 4000 | 14 | 1.74 | 97.5 | 96.7 |
| -12 | Min | 4000 | 14 | 1.74 | 97.5 | 96.7 |
| -11 | Min | 3900 | 14.5 | 1.74 | 97.5 | 97.2 |
| -10 | Min | 3900 | 14.5 | 1.7 | 97.5 | 97.2 |
| -9 | Min | 3950 | 14.5 | 1.7 | 97.5 | 96.2 |
| -8 | Min | 3850 | 14 | 1.68 | 97.5 | 96.2 |
| -7 | Min | 3800 | 14 | 1.68 | 97 | 96.2 |
| -6 | Min | 3700 | 14 | 1.68 | 97 | 97.2 |
| -5 | Min | 2500 | 14.5 | 0.92 | 97 | 65.6 |
| -4 | Min | 700 | 14 | 0.68 | 95.5 | 49.8 |
| -3 | Min | 750 | 14 | 0.68 | 93 | 51.3 |
| -2 | Min | 650 | 14 | 0.68 | 90 | 48.4 |
| -1 | Min | 800 | 14 | 0.68 | 25.5 | 48.4 |