

Diesel engine test report



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|----------------------|----------|
| Engine serial number | 23Z04838 |
| Workorder number | RS10672 |
| Project number | |

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|---------------------------------|-------------------------------|---------------------|---------------------|
| Date test start | : Thursday, December 17, 2020 | | |
| Date test end | : Friday, December 18, 2020 | | |
| Customer data | | | |
| Customer | | Zipcode | |
| Address | | Telephone number | : |
| Place | | Contact person | : |
| Engine data | | | |
| Type | : 3508 | O.T. number | : 0T7418 |
| Arrangement number | : 2W8406 | SMU | : 0 |
| Application | : Gen set | TURBO NR. | : 7W8011 |
| Advertised Speed / Power | : 1800 RPM 760 kW | INJECTOR NR. | : 7E6408 |
| Attachments | | | |
| Governor make | : CAT | Type: | Serial number : N/a |
| Ign. system | : N/a | | Serial number : N/a |
| Generator | : N/a | | Serial number : N/a |
| ECM SOFTWARE. | : | ECM NR. | : |
| Adjustments | | | |
| Power kW | : 846 | RPM | : 1800 |
| 910 low idle speed RPM | : 1200 | Rack setting | : 12,7 mm |
| 910 high idle speed RPM | : 1818 | Injector timing | : 86,60 mm |
| Full load | : 110% | Generator power ekW | : N/a |
| Consumption fuel/gas/oil | | | |
| | | Gas by | : bar |
| Fuel Test end | : 605 liters | | : m ³ |
| Fuel Test start | : 0 liters | | : m ³ |
| Consumption | : liters | | : m ³ |
| Lub. oil | : 200 liters | | : 15W40 SAE |



| General data | | | | | | | | | | |
|---|-------|-------|------|------|------|------|------|---|---|----|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Time (start / stop) min | | 30 | 30 | 30 | 60 | 30 | | | | |
| Remarks during test procedure | | | | | | | | | | |
| Engine rpm | Start | 1800 | 1800 | 1800 | 1800 | 1800 | Stop | | | |
| Load % | | 25 | 50 | 75 | 100 | 110 | | | | |
| Shaft kW | | 190 | 380 | 570 | 760 | 845 | | | | |
| Torque Nm | | 1012 | 2019 | 3037 | 4039 | 4484 | | | | |
| JW Cooling system | | | | | | | | | | |
| 922 JW inlet temp °C <small>(from cooling system)</small> | | 36 | 31 | 35 | 37 | 34 | | | | |
| 901 JW outlet temp °C <small>(before regulator)</small> | | 86 | 88 | 89 | 90 | 90 | | | | |
| 902 JW pump outlet °C | | 85 | 85 | 86 | 85 | 85 | | | | |
| 903 A/C inlet water temp °C | | 85 | 85 | 86 | 85 | 85 | | | | |
| 903A A/C outlet water temp °C | | 84 | 86 | 87 | 89 | 89 | | | | |
| Lubrication oil system | | | | | | | | | | |
| 913 Lube oil eng. Inlet temp °C | | 93 | 95 | 97 | 97 | 98 | | | | |
| Delta T cooler | | 7 | 8 | 8 | 10 | 10 | | | | |
| 914 Lube oil press. kPa | | 524 | 515 | 499 | 497 | 485 | | | | |
| Crankcase pressure kPa | | | | | | | | | | |
| Inlet system | | | | | | | | | | |
| 906 Inlet Manifold temp. °C <small>Before aftercooler</small> | | 58 | 91 | 127 | 167 | 180 | | | | |
| 906 Inlet Manifold temp. R °C <small>After aftercooler</small> | | 81 | 84 | 87 | 91 | 92 | | | | |
| 930 Air@Air cleaner temp. °C | | 20 | 22 | 24 | 25 | 25 | | | | |
| Air inlet pres. L kPa | | 28 | 68 | 117 | 171 | 199 | | | | |
| Ambient temperature: | | 15 °C | | | | | | | | |
| Fuel system | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 917 Fuel pressure kPa | | 604 | 596 | 590 | 580 | 579 | | | | |
| 201 Fuel inlet line °C | | 10 | 10 | 10 | 11 | 11 | | | | |
| 202 Fuel outlet return °C | | 29 | 30 | 30 | 30 | 30 | | | | |
| Fuel consumption L/H | | 61 | 109 | 157 | 207 | 227 | | | | |
| Fuel density g/dm by °C | | | | | | | | | | |
| Exhaust Data | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Stack Temperature °C | | 272 | 338 | 372 | 397 | 410 | | | | |
| Manifold Temperature L °C | | | | | | | | | | |
| Manifold Temperature R °C | | | | | | | | | | |

Calibration done by: Endress+Hauser
 Date of last calibration: june 2020
 Calibrations waterbrakes done by: Horiba
 Date of last calibration: May 2020



Remarks / Exceptions

Remarks:

- Oil filter checked and approved
- Oil sample taken
- No visual leakages
- Engine mechanical approved
- Rack sealed

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|--|--|
| <p>Work done by :</p> <p>Test done by : Marcel v/d Adel, Jurgen v/d Velden</p> | <p>Signature :</p> <p>Date : 18-12-20</p> <p style="text-align: right;">Pon Power BV Ketelweg 20 - Postbus 61 3350 AB Papendrecht</p> |
| <p>Approved by customer :</p> <p style="text-align: center;">n.v.t</p> | <p>Signature :</p> <p>Date :</p> |
| <p>Approved by class.soc. : n.v.t.</p> <p>DHR:</p> <p>STAMPED:</p> | <p>Signature :</p> <p>Date :</p> |