

## Generator Test Report

| General information |                           |                        |            |
|---------------------|---------------------------|------------------------|------------|
| Customer:           | Diesel Power Holland B.V. | Customer order number: | DPH 108822 |
| Date:               | 21-5-2026                 | EMRI order number:     | 32260478   |

| Generator details |              |                 |              |
|-------------------|--------------|-----------------|--------------|
| Make:             | CATERPILLAR  | Power:          | 143 kVA      |
| Type:             | SR4          | Voltage:        | 440 V        |
| Serial number:    | 9AB07399     | Current:        | 188 A        |
| AVR type:         | CAT AVR V2.3 | Frequency:      | 60 Hz        |
| Enclosure:        |              | Rotation speed: | 1800 rpm     |
| Insulation Class: | H            | Excitation:     | 39,7 V 7,6 A |

| Test Results                             |                                          |      |   |                                       |             |            |            |
|------------------------------------------|------------------------------------------|------|---|---------------------------------------|-------------|------------|------------|
| Megger test                              |                                          |      |   | Heatrun                               |             |            |            |
| Megger voltage:                          | 1000                                     | V    |   | Time                                  | Current (A) | Air-out °C | Ambient °C |
| Stator:                                  | >2000                                    | MΩ   |   | 8:00                                  |             |            |            |
| Rotor:                                   | >2000                                    | MΩ   |   | 8:30                                  |             |            |            |
| Exciter Stator:                          | >2000                                    | MΩ   |   | 9:00                                  |             |            |            |
| Exciter Rotor:                           | >2000                                    | MΩ   |   | 9:30                                  |             |            |            |
| High voltage test                        |                                          |      |   | 10:00                                 |             |            |            |
| Test voltage:                            | -                                        | V    |   | 10:30                                 |             |            |            |
| Duration:                                | -                                        | Sec. |   | 11:00                                 |             |            |            |
| <input type="checkbox"/> U-phase / earth | <input type="checkbox"/> W-phase / earth |      |   | 11:30                                 |             |            |            |
| <input type="checkbox"/> V-phase / earth | <input type="checkbox"/> Rotor / earth   |      |   | 12:00                                 |             |            |            |
| Excitation                               |                                          |      |   | Temperature rise ΔT                   |             |            |            |
| "NO Load"                                | 6,5                                      | V    | A | R <sub>1</sub> = cold resistance U-V: |             |            | Ω          |
| "50% Load"                               | 15,6                                     | V    | A | R <sub>2</sub> = warm resistance U-V: |             |            | Ω          |
| "100% Load"                              | 26,4                                     | V    | A | $\Delta T = \frac{R_2}{R_1} - 1 =$    |             |            |            |
| "120% Load"                              | 31,3                                     | V    | A |                                       |             |            |            |
| "120% Overspeed"                         | 4,5                                      | V    | A |                                       |             |            |            |
| Field resistance:                        | 4,5                                      | Ω    |   | 0,0043                                |             |            | °C         |

| Analyzer Testdata |               |  |      |     |             |                  |               |  |      |                  |     |
|-------------------|---------------|--|------|-----|-------------|------------------|---------------|--|------|------------------|-----|
| "NO Load"         |               |  |      |     | "NO Load"   | "120% Load"      |               |  |      | "120% Load"      |     |
|                   | Power:        |  | 0    | kVA |             |                  | Power:        |  | 171  |                  | kVA |
|                   | Voltage:      |  | 437  | V   |             |                  | Voltage:      |  | 435  |                  | V   |
|                   | Current:      |  | 0    | A   |             |                  | Current:      |  | 227  |                  | A   |
|                   | Frequency:    |  | 60,2 | Hz  |             |                  | Frequency:    |  | 60,4 |                  | Hz  |
|                   | Power factor: |  |      | φ   |             |                  | Power factor: |  |      |                  | φ   |
| "50% Load"        |               |  |      |     | "50% Load"  | "120% Overspeed" |               |  |      | "120% Overspeed" |     |
|                   | Power:        |  | 72   | kVA |             |                  | Power:        |  | 0    |                  | kVA |
|                   | Voltage:      |  | 439  | V   |             |                  | Voltage:      |  | 437  |                  | V   |
|                   | Current:      |  | 95   | A   |             |                  | Current:      |  | 0    |                  | A   |
|                   | Frequency:    |  | 60,3 | Hz  |             |                  | Frequency:    |  | 70,0 |                  | Hz  |
|                   | Power factor: |  |      | φ   |             |                  | Power factor: |  |      |                  | φ   |
| "100% Load"       |               |  |      |     | "100% Load" | Remarks          |               |  |      | Remarks          |     |
|                   | Power:        |  | 144  | kVA |             |                  |               |  |      |                  |     |
|                   | Voltage:      |  | 436  | V   |             |                  |               |  |      |                  |     |
|                   | Current:      |  | 191  | A   |             |                  |               |  |      |                  |     |
|                   | Frequency:    |  | 60,3 | Hz  |             |                  |               |  |      |                  |     |
|                   | Power factor: |  |      | φ   |             |                  |               |  |      |                  |     |

| Acceptance test approval |  |                                                                                     |                     |
|--------------------------|--|-------------------------------------------------------------------------------------|---------------------|
| Whitnessed by:           |  | Stamp/Signature:                                                                    | Certificate number: |
| EMRI                     |  |  |                     |
|                          |  |                                                                                     | 32260478            |
|                          |  |                                                                                     |                     |
| Repair Engineer(s):      |  | Test Engineer(s):                                                                   |                     |
| JMY                      |  | RSC                                                                                 |                     |