

IEC 60092-101 Report

General Information

Recording Location: ~~CECECE~~

Client:

Notes: DIESEL GENERATOR No. 2

Device Information

Instrument: 435-II

Serial: 33233112

User:

Address:

Site:

FW Version: V04.05 2.1

FW Date: 01/09/2015

Measurement Information

Start Date: 12/07/2016 11:51:25

End Date: 12/07/2016 13:51:15

Duration: 0d 1h 59m 50s 0ms

Mode: Monitor

Topology: Wye without neutral mode

Freq: 60Hz

Vnom: 480V

Limits: EN50160

Limit Summary

RMS	>	432.0 V	<	528.0 V	95.0 % of time
THD	<	8 %			95 % of time
Plt	<	1			95.0 % of time
Dip	<	432 V			20 % per week
Swell	>	528 V			20 % per week
Unbal.	<	2 %			95.0 % of time
Hz	>	59.4 Hz	<	60.6 Hz	99.5 % of time

Supply Voltage Variations

L1 RMS Voltage:	95.0 %	Value = 448.42 V
L2 RMS Voltage:	95.0 %	Value = 448.40 V
L3 RMS Voltage:	95.0 %	Value = 448.08 V

Voltage Harmonics

L1	THD:	100 % Value = 0.8 %	PASS
	H2:	95.0 % Value = 0.3%	PASS
	H3:	95.0 % Value = 0.2%	PASS
	H4:	95.0 % Value = 0.1%	PASS
	H5:	95.0 % Value = 0.4%	PASS

H6:	95.0	% Value = 0.1%	100 % Value = --.- %	PASS
H7:	95.0	% Value = 0.3%	100 % Value = --.- %	PASS
H8:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H9:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H10:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H11:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H12:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H13:	95.0	% Value = 0.1%	100 % Value = --.- %	PASS
H14:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H15:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H16:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H17:	95.0	% Value = 0.2%	100 % Value = --.- %	PASS
H18:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H19:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H20:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H21:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H22:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H23:	95.0	% Value = 0.2%	100 % Value = --.- %	PASS
H24:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H25:	95.0	% Value = 0.1%	100 % Value = --.- %	PASS

L2

THD:			100 % Value = 0.8 %	PASS
H2:	95.0	% Value = 0.3%	100 % Value = --.- %	PASS
H3:	95.0	% Value = 0.1%	100 % Value = --.- %	PASS
H4:	95.0	% Value = 0.1%	100 % Value = --.- %	PASS
H5:	95.0	% Value = 0.4%	100 % Value = --.- %	PASS
H6:	95.0	% Value = 0.1%	100 % Value = --.- %	PASS
H7:	95.0	% Value = 0.4%	100 % Value = --.- %	PASS
H8:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H9:	95.0	% Value = 0.1%	100 % Value = --.- %	PASS
H10:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H11:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H12:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H13:	95.0	% Value = 0.1%	100 % Value = --.- %	PASS
H14:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H15:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H16:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H17:	95.0	% Value = 0.2%	100 % Value = --.- %	PASS
H18:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H19:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H20:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H21:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS
H22:	95.0	% Value = 0.0%	100 % Value = --.- %	PASS

H23:	95.0	% Value = 0.2%	100 % Value = --- %	PASS
H24:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
H25:	95.0	% Value = 0.0%	100 % Value = --- %	PASS

L3	THD:		100 % Value = 0.8 %	PASS	
	H2:	95.0	% Value = 0.3%	100 % Value = --- %	PASS
	H3:	95.0	% Value = 0.2%	100 % Value = --- %	PASS
	H4:	95.0	% Value = 0.1%	100 % Value = --- %	PASS
	H5:	95.0	% Value = 0.4%	100 % Value = --- %	PASS
	H6:	95.0	% Value = 0.1%	100 % Value = --- %	PASS
	H7:	95.0	% Value = 0.3%	100 % Value = --- %	PASS
	H8:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H9:	95.0	% Value = 0.1%	100 % Value = --- %	PASS
	H10:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H11:	95.0	% Value = 0.1%	100 % Value = --- %	PASS
	H12:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H13:	95.0	% Value = 0.1%	100 % Value = --- %	PASS
	H14:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H15:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H16:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H17:	95.0	% Value = 0.1%	100 % Value = --- %	PASS
	H18:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H19:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H20:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H21:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H22:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H23:	95.0	% Value = 0.2%	100 % Value = --- %	PASS
	H24:	95.0	% Value = 0.0%	100 % Value = --- %	PASS
	H25:	95.0	% Value = 0.1%	100 % Value = --- %	PASS

Flicker

L1 Plt:	95.0	%	Value = 0.00	PASS
L2 Plt:	95.0	%	Value = 0.00	PASS
L3 Plt:	95.0	%	Value = 0.00	PASS

Supply Voltage Dips, Interruptions, Swells and Rapid Voltage Changes

Number of Dips: 17
 Number of Interruptions: 0
 Number of Swells: 0
 Number of Rapid Voltage Changes:
 L1: 0 L2: 0 L3: 0

Supply Voltage Unbalance

Unbalance: 95.0 % Value = 0.1 %

Power Frequency

Hz: 99.5 % Value = 58.862 Hz 100 % Value = 58.839 Hz

Mains Signaling 1

L1: 99.0 % Value = 0.0 % 100 % value = 0.0
L2: 99.0 % Value = 0.0 % 100 % value = 0.0
L3: 99.0 % Value = 0.0 % 100 % value = 0.0

Mains Signaling 2

L1: 99.0 % Value = 0.0 % 100 % value = 0.0
L2: 99.0 % Value = 0.0 % 100 % value = 0.0
L3: 99.0 % Value = 0.0 % 100 % value = 0.0

Event List

Time	Channel	Type	Level	Duration
07-12-2016 11:51:25 45ms	A(V)	HZ	59.32	00:01:50 0ms
07-12-2016 11:53:15 45ms	A(V)	HZ	59.41	00:00:00 0ms
07-12-2016 11:53:18 521ms	A(V)	DIP	423.52	00:00:00 174ms
07-12-2016 11:53:18 521ms	A(V)	DIP	431.07	00:00:00 0ms
07-12-2016 11:53:18 524ms	B(V)	DIP	429.28	00:00:00 0ms
07-12-2016 11:53:18 527ms	C(V)	DIP	429.03	00:00:00 0ms
07-12-2016 11:53:18 689ms	A(V)	DIP	442.11	00:00:00 0ms
07-12-2016 11:53:18 692ms	B(V)	DIP	442.26	00:00:00 0ms
07-12-2016 11:53:18 695ms	C(V)	DIP	442.64	00:00:00 0ms
07-12-2016 11:53:35 45ms	A(V)	HZ	59.24	00:00:00 0ms
07-12-2016 11:54:37 163ms	C(V)	DIP	426.89	00:00:00 192ms
07-12-2016 11:54:37 163ms	C(V)	DIP	431.02	00:00:00 0ms
07-12-2016 11:54:37 160ms	B(V)	DIP	431.82	00:00:00 0ms
07-12-2016 11:54:37 166ms	A(V)	DIP	430.21	00:00:00 0ms
07-12-2016 11:54:37 349ms	C(V)	DIP	441.93	00:00:00 0ms
07-12-2016 11:54:37 352ms	A(V)	DIP	441.94	00:00:00 0ms
07-12-2016 11:54:37 355ms	B(V)	DIP	441.95	00:00:00 0ms
07-12-2016 11:56:55 991ms	C(V)	DIP	427.62	00:00:00 211ms
07-12-2016 11:56:55 991ms	C(V)	DIP	431.43	00:00:00 0ms
07-12-2016 11:56:55 993ms	A(V)	DIP	431.19	00:00:00 0ms
07-12-2016 11:56:55 996ms	B(V)	DIP	430.58	00:00:00 0ms
07-12-2016 11:56:56 188ms	A(V)	DIP	441.62	00:00:00 0ms
07-12-2016 11:56:56 191ms	B(V)	DIP	441.67	00:00:00 0ms
07-12-2016 11:56:56 202ms	C(V)	DIP	441.84	00:00:00 0ms
07-12-2016 11:58:58 785ms	C(V)	DIP	411.44	00:00:00 168ms
07-12-2016 11:58:58 785ms	C(V)	DIP	427.54	00:00:00 0ms

07-12-2016 11:58:58 787ms	A(V)	DIP	421.04	00:00:00 0ms
07-12-2016 11:58:58 790ms	B(V)	DIP	421.53	00:00:00 0ms
07-12-2016 11:58:58 948ms	A(V)	DIP	442.39	00:00:00 0ms
07-12-2016 11:58:58 951ms	B(V)	DIP	442.81	00:00:00 0ms
07-12-2016 11:58:58 953ms	C(V)	DIP	443.07	00:00:00 0ms
07-12-2016 12:01:22 476ms	C(V)	DIP	424.03	00:00:00 176ms
07-12-2016 12:01:22 476ms	C(V)	DIP	430.55	00:00:00 0ms
07-12-2016 12:01:22 479ms	A(V)	DIP	430.27	00:00:00 0ms
07-12-2016 12:01:22 482ms	B(V)	DIP	429.80	00:00:00 0ms
07-12-2016 12:01:22 649ms	A(V)	DIP	442.19	00:00:00 0ms
07-12-2016 12:01:22 655ms	C(V)	DIP	442.67	00:00:00 0ms
07-12-2016 12:01:22 652ms	B(V)	DIP	442.54	00:00:00 0ms
07-12-2016 12:07:16 149ms	C(V)	DIP	428.14	00:00:00 198ms
07-12-2016 12:07:16 149ms	C(V)	DIP	431.73	00:00:00 0ms
07-12-2016 12:07:16 152ms	A(V)	DIP	431.30	00:00:00 0ms
07-12-2016 12:07:16 155ms	B(V)	DIP	431.11	00:00:00 0ms
07-12-2016 12:07:16 341ms	A(V)	DIP	441.92	00:00:00 0ms
07-12-2016 12:07:16 344ms	B(V)	DIP	441.98	00:00:00 0ms
07-12-2016 12:07:16 347ms	C(V)	DIP	441.96	00:00:00 0ms
07-12-2016 12:17:34 49ms	A(V)	DIP	428.28	00:00:00 198ms
07-12-2016 12:17:34 49ms	A(V)	DIP	431.78	00:00:00 0ms
07-12-2016 12:17:34 55ms	C(V)	DIP	430.59	00:00:00 0ms
07-12-2016 12:17:34 52ms	B(V)	DIP	431.36	00:00:00 0ms
07-12-2016 12:17:34 244ms	A(V)	DIP	441.68	00:00:00 0ms
07-12-2016 12:17:34 250ms	C(V)	DIP	441.62	00:00:00 0ms
07-12-2016 12:17:34 247ms	B(V)	DIP	441.85	00:00:00 0ms
07-12-2016 12:27:53 477ms	A(V)	DIP	428.29	00:00:00 210ms
07-12-2016 12:27:53 477ms	A(V)	DIP	431.89	00:00:00 0ms
07-12-2016 12:27:53 480ms	B(V)	DIP	431.59	00:00:00 0ms
07-12-2016 12:27:53 482ms	C(V)	DIP	430.75	00:00:00 0ms
07-12-2016 12:27:53 673ms	A(V)	DIP	441.90	00:00:00 0ms
07-12-2016 12:27:53 676ms	B(V)	DIP	441.71	00:00:00 0ms
07-12-2016 12:27:53 687ms	C(V)	DIP	441.98	00:00:00 0ms
07-12-2016 12:38:12 85ms	B(V)	DIP	428.73	00:00:00 192ms
07-12-2016 12:38:12 85ms	B(V)	DIP	431.74	00:00:00 0ms
07-12-2016 12:38:12 88ms	C(V)	DIP	431.30	00:00:00 0ms
07-12-2016 12:38:12 91ms	A(V)	DIP	430.93	00:00:00 0ms
07-12-2016 12:38:12 271ms	B(V)	DIP	441.66	00:00:00 0ms
07-12-2016 12:38:12 274ms	C(V)	DIP	441.65	00:00:00 0ms
07-12-2016 12:38:12 277ms	A(V)	DIP	441.82	00:00:00 0ms
07-12-2016 12:48:24 629ms	B(V)	DIP	429.04	00:00:00 181ms
07-12-2016 12:48:24 629ms	B(V)	DIP	431.79	00:00:00 0ms
07-12-2016 12:48:24 632ms	C(V)	DIP	431.17	00:00:00 0ms

07-12-2016 12:48:24 635ms	A(V)	DIP	431.36	00:00:00 0ms
07-12-2016 12:48:24 805ms	A(V)	DIP	442.42	00:00:00 0ms
07-12-2016 12:48:24 807ms	B(V)	DIP	442.08	00:00:00 0ms
07-12-2016 12:48:24 810ms	C(V)	DIP	441.91	00:00:00 0ms
07-12-2016 12:58:41 688ms	C(V)	DIP	427.76	00:00:00 212ms
07-12-2016 12:58:41 688ms	C(V)	DIP	431.52	00:00:00 0ms
07-12-2016 12:58:41 691ms	A(V)	DIP	431.42	00:00:00 0ms
07-12-2016 12:58:41 693ms	B(V)	DIP	431.21	00:00:00 0ms
07-12-2016 12:58:41 889ms	B(V)	DIP	441.73	00:00:00 0ms
07-12-2016 12:58:41 895ms	A(V)	DIP	442.02	00:00:00 0ms
07-12-2016 12:58:41 900ms	C(V)	DIP	441.65	00:00:00 0ms
07-12-2016 13:08:55 461ms	C(V)	DIP	427.88	00:00:00 203ms
07-12-2016 13:08:55 461ms	C(V)	DIP	431.69	00:00:00 0ms
07-12-2016 13:08:55 464ms	A(V)	DIP	431.56	00:00:00 0ms
07-12-2016 13:08:55 466ms	B(V)	DIP	431.15	00:00:00 0ms
07-12-2016 13:08:55 659ms	A(V)	DIP	441.81	00:00:00 0ms
07-12-2016 13:08:55 662ms	B(V)	DIP	441.95	00:00:00 0ms
07-12-2016 13:08:55 664ms	C(V)	DIP	441.65	00:00:00 0ms
07-12-2016 13:17:44 863ms	C(V)	DIP	431.58	00:00:00 153ms
07-12-2016 13:17:44 863ms	C(V)	DIP	431.73	00:00:00 0ms
07-12-2016 13:17:44 866ms	A(V)	DIP	431.95	00:00:00 0ms
07-12-2016 13:17:44 868ms	B(V)	DIP	431.92	00:00:00 0ms
07-12-2016 13:17:45 10ms	A(V)	DIP	441.86	00:00:00 0ms
07-12-2016 13:17:45 13ms	B(V)	DIP	442.15	00:00:00 0ms
07-12-2016 13:17:45 16ms	C(V)	DIP	442.09	00:00:00 0ms
07-12-2016 13:17:49 21ms	B(V)	DIP	404.84	00:00:00 172ms
07-12-2016 13:17:49 21ms	B(V)	DIP	430.13	00:00:00 0ms
07-12-2016 13:17:49 24ms	C(V)	DIP	418.26	00:00:00 0ms
07-12-2016 13:17:49 27ms	A(V)	DIP	416.82	00:00:00 0ms
07-12-2016 13:17:49 188ms	A(V)	DIP	442.08	00:00:00 0ms
07-12-2016 13:17:49 191ms	B(V)	DIP	442.63	00:00:00 0ms
07-12-2016 13:17:49 193ms	C(V)	DIP	442.86	00:00:00 0ms
07-12-2016 13:23:47 305ms	B(V)	DIP	428.52	00:00:00 206ms
07-12-2016 13:23:47 305ms	B(V)	DIP	431.90	00:00:00 0ms
07-12-2016 13:23:47 307ms	C(V)	DIP	431.35	00:00:00 0ms
07-12-2016 13:23:47 310ms	A(V)	DIP	431.40	00:00:00 0ms
07-12-2016 13:23:47 496ms	A(V)	DIP	441.69	00:00:00 0ms
07-12-2016 13:23:47 499ms	B(V)	DIP	441.66	00:00:00 0ms
07-12-2016 13:23:47 511ms	C(V)	DIP	442.03	00:00:00 0ms
07-12-2016 13:34:04 761ms	C(V)	DIP	428.89	00:00:00 202ms
07-12-2016 13:34:04 761ms	C(V)	DIP	431.34	00:00:00 0ms
07-12-2016 13:34:04 759ms	B(V)	DIP	431.88	00:00:00 0ms
07-12-2016 13:34:04 764ms	A(V)	DIP	430.94	00:00:00 0ms

07-12-2016 13:34:04 960ms	A(V)	DIP	441.97	00:00:00 0ms
07-12-2016 13:34:04 966ms	C(V)	DIP	442.01	00:00:00 0ms
07-12-2016 13:34:04 963ms	B(V)	DIP	442.08	00:00:00 0ms
07-12-2016 13:44:18 449ms	B(V)	DIP	428.57	00:00:00 206ms
07-12-2016 13:44:18 449ms	B(V)	DIP	431.86	00:00:00 0ms
07-12-2016 13:44:18 452ms	C(V)	DIP	431.16	00:00:00 0ms
07-12-2016 13:44:18 455ms	A(V)	DIP	431.09	00:00:00 0ms
07-12-2016 13:44:18 650ms	A(V)	DIP	442.03	00:00:00 0ms
07-12-2016 13:44:18 653ms	B(V)	DIP	442.01	00:00:00 0ms
07-12-2016 13:44:18 655ms	C(V)	DIP	441.77	00:00:00 0ms
07-12-2016 11:53:35 45ms	A(V)	HZ	58.84	01:57:40 933ms