



Annual Load Bank Test Report

TEL 785-267-8106

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Customer	Gunsmoke Power
Work Order	3817304

Engine Model	C15
Engine Serial #	P3Z00622
Engine Horsepower	610
Engine Hours	2964
Generator kW	455
Generator Amps	547
Generator Voltage	480

Unit #	Gen 2
Date of Test	6/15/2022
Technician	Roger
Start/Stop Time	12pm
Vibrations	none
Exhaust Leaks	none
Intake Leaks	none

Air Intake Louvers	none
Coolant Leaks	none
Oil Leaks	none
Coolant Level	full
Oil Level	full

	Start Up	0:15	0:30	0:45	1:00	1:15	1:30	1:45	2:00	Cooldown
Load Percentage of Amps	0	51	101	101	101	101	101	101	101	0
Load Percentage of KW @ 1.0 PF	0	51	100	100	100	100	100	100	100	0
Engine Room Temperature	82	82	82	82	82	82	82	82	82	82
Voltage	480	480	480	480	480	480	480	480	480	480
Amps, Phase 1	0	277	550	550	550	550	550	550	550	0
Amps, Phase 2	0	276	550	550	550	550	550	550	550	0
Amps, Phase 3	0	277	550	550	550	550	550	550	550	0
Frequency, Hertz	60	60	60	60	60	60	60	60	60	60
kW @ 1.0 Power Factor	0	230	457	457	457	457	457	457	457	0
Engine Horsepower	0	308	613	613	613	613	613	613	613	0
Estimated Fuel Consumption	0.0	18.5	36.8	36.8	36.8	36.8	36.8	36.8	36.8	0.0
Engine Oil Pressure	71	68	61	61	61	61	60	60	61	70
Engine Oil Temperature	142	163	192	193	193	194	193	193	194	178
Engine Coolant Temperature	151	180	192	192	194	194	193	194	194	180
Radiator Inlet Temperature	131	173	210	209	209	209	210	209	210	179
Radiator Outlet Temperature	78	93	143	167	166	164	167	170	168	150
Radiator Delta T	53	80	67	42	43	45	43	39	42	29
Exhaust Temperature Left	na	na	na	na	na	na	na	na	na	na
Exhaust Temperature Right	198	298	687	732	743	752	756	762	773	634

Comments

Load steps

Not required by the NFPA

1/2 hour - 30% or more - warm up time

Required by the NFPA

1/2 Hour - 50% or more

1 Hour - 75% or more

8.4.2* Diesel generator sets in service shall be exercised at least once monthly, for a minimum of 30 minutes, using one of the following methods:

- (1) Loading that maintains the minimum exhaust gas temperatures as recommended by the manufacturer
- (2) Under operating temperature conditions and at not less than 30 percent of the EPS nameplate kW rating

8.4.2.3 Diesel-powered EPS installations that do not meet the requirements of 8.4.2 shall be exercised monthly with the available EPSS load and shall be exercised annually with supplemental loads at not less than 50 percent of the EPS nameplate kW rating for 30 continuous minutes and at not less than 75 percent of the EPS nameplate kW rating for 1 continuous hour for a total test duration of not less than 1.5 continuous hours.

The Above articles were pulled directly from NFPA 110, 2010 edition, which is used by the Kansas State fire Marshalls office and the Joint Commission, according to their office and websites

Please show exact start time and stop time of the generator set