

GENERATOR WINDING INSPECTION

CUSTOMER INFORMATION

Customer's Name	PPSI Used	Contact	Eric Plebuch	Phone #	(541) 501-2696
Location	EUG YARD	Unit #	UE01190	Work order	2938194
				DATE	4/4/2019

GENERATOR NAME PLATE INFORMATION

Engine Serial #:	E5A01189	Ar/ Spec #		Hours	1000
Generator Serial #	F3A03641	Ar/ Spec #		Volts	480
Rated Amperage @ .8pf:		KW:	100	Standby or Prime?	
Hertz:		KVA:		RPM	
Heaters?		Year of Manufacture:		Single or Three Phase	3
				Date of last inspection	

CATERPILLAR GENERATOR INSULATION TEST SPECIFICATIONS

METER: Use 500 volt dc for generators 600 vac or less
 Disconnect grounds, leads, fuses, meters and controls. Lockout/ tagout of system is required.
 Discharge the capacitance of the windings, disconnect " TO" from ground.
 Red lead of meter to ground ("+"). Connect black lead to "TO" ("-")

SPECS: New generators should be 30 megohms or greater
 Minimum resistance should be at least 1 megohm.
 Inspections should be performed as close to the same temperature and humidity conditions as the previous test.
 Resistance should rise between 30 second and 60 second readings.
 Loss of 50% or greater resistance from previous testing indicates moisture in windings. Dry out windings and retest.
 Windings should be 5°C (8°F) above ambient temperature to keep out moisture.
 Windings should be free from dust, dirt, grease, salt and oil film as these break down insulation.

CLEAN: Wipe with a dry lint free cloth on low voltage systems only. Solvents may be used as per manufacturer recommendations.
 Caterpillar recommends hydrosolve solution between 5% to 100% strength
 Generators should be cleaned, dipped and baked when windings fall below manufacturers specifications

MEGOHMMETER TEST (SEHS9142)

	30second	60second	Ambient temp	Comments:
MAIN STATOR - A	>500 M	>500 M	51	Pass
MAIN STATOR - B	>500 M	>500 M	51	Pass
MAIN STATOR - C	>500 M	>500 M	51	Pass
MAIN ROTOR				
EXCITER STATOR				
EXCITER ROTOR				
PMG STATOR				

REGULATOR TESTING

	NO LOAD			FULL LOAD	
	VOLTAGE	AMPS	OHMS (1)	VOLTAGE	AMPS
F1 TO F2					
20 TO 22					
20 TO 24					
24 TO 30 (SE ONLY)					
26 TO 28 (PM ONLY)					
26 TO 30 (PM ONLY)					
28 TO 30 (PM ONLY)					

COMMENTS: NOTE: OHMS(1) FOR FIELD IS MEASURED WITH ENGINE STOPPED

The unit passed after drying the main windings

CUSTOMER SIGNATURE

TECHNICIAN SIGNATURE

Mike Curren

