

ATTACHMENT J-0200000-05
FORMS

CERTIFICATION OF WORK
(To be completed by the Contractor and saved in the Contractor's CMMS)

FACID/Building: WU053-1 Date of Visit: 2/27/19

Contractor Personnel on Site:

1. Tony Lanza
2. Tom Gartner
3. _____
4. _____
5. _____
6. _____

Work Performed:

Preventive Maintenance - Services Completed (Annual, Quarterly, Monthly, equipment identification, etc.)

1. Weld 7299 Asset # 6772
2. Generator - Recommended that Battery
3. gets Replaced. Fuel Gauge is not working
4. Generator has been running since 2/24/19 gauge is still shown 5% full.

CERTIFICATION OF WORK

To be signed by the Contractor:

Print Name: Tony Lanza Date: 2/27/19
Signed: Tony Lanza

To be signed by Facility Manager:

By signing the Certification of Work, the said government representative signature does not constitute acceptance of any work performed by the contractor, it only acknowledges that the contractor was on-site during the identified timeline:

Print Name/Rank: James Chaffin Date: 27 Feb 19

Signed: James Chaffin
E-Mail: James.C.chaffin.civ@mail.mil

PREVENTATIVE MAINTENANCE PROGRAM CHECKLIST
EMERGENCY GENERATORS

SITE AND BLDG #: WV053 - 01LOCATION/RM #: Perkins WO# 7898 ASSET # 6772MECHANIC
SIGNATURE: JGDATE: 2/27/18START TIME: 0820FINISH TIME: 0900

ITEM #	DESCRIPTION	PARK COMBINED		NOTES/ACTIONS (IF PARK COMBINED, CHECK BOXES TO PROVIDE EXPLANATION)
		YES	NO	
1	In addition to the procedure(s) outlined in this standard, the equipment manufacturer's recommended maintenance procedure(s) and/or instruction(s) shall be strictly adhered to.			
2	Review and follow manufacturer's instructions. One copy of the instruction manual(s) shall be kept in a secure, convenient location near the equipment and another kept in a different location.			
3	Follow lock out/tag out procedures at all times. De-energize or discharge all hydraulic, electrical, mechanical, or thermal energy prior to beginning work.			
4	A written record of all inspections, service, tests, operation, and repairs to the emergency generator shall be maintained in an equipment log book and kept on the premises. This record shall include the date of maintenance, identity of service personnel, and notation of any unsatisfactory condition and the corrective action taken, including parts replaced.			
5	Have a properly serviced fire extinguisher in proper working order on hand.			
6	Follow NFPA 110 and 111 for operation and maintenance requirements.			
TO BE PERFORMED AT EACH INSPECTION SERVICE				
1	Fuel, check main and day tank fuel supply levels; day tank float switch; piping, hoses and connectors; operating fuel pressure; and for any obstructions to tank vents and overflow piping.	✓		GAUGE STILL READING 5% generator
2	Oil (check for proper oil level and oil operating pressure; lube oil heater) • Engine oil level should be checked with the unit stopped • Check unit for recommended proper oil pressure			has been running since 2/24/18 no gauge
3	Cooling system (check coolant level, water pump(s), jacket water heater, belts, hoses, fan)			has not moved, needs repair
4	Exhaust system, check for leaks while unit is running.			
5	Battery system [look for possible corrosion; check specific gravity, electrolyte level (a level between 1250 and 1275 is acceptable) and battery charger. Use distilled water to maintain battery water level.]	✓		Recommend Battery Replacement
6	Electrical (conduct a general inspection of wiring and connections; check circuit breakers/fuses, look for discoloration or signs of overheating)			
7	Generator (Check for debris, foreign objects, loose or broken fittings; check guards and components; look for any unusual condition of vibration, leakage, noise, temperature or deterioration)			

Note: The technician shall perform any repairs identified during PM up to \$250 (direct labor and direct material cost) per PM occurrence. For any deficiencies found exceeding \$250 open a corrective maintenance (CM) ticket and include the Asset #, WO #, photos, and a detailed description of the deficiency.

To be performed by: General Maintenance Worker

Additional Notes:

Ohio3993 E. Royalton Rd
Broadview Hts, OH 44147**Service Invoice**

Invoice Number: WO240011926

Ref Doc: YV07707

P.O. Number:

Invoice Amount: \$2506.49

Invoice Date: 01/31/19

Sold To: 3122009**Remit Payment To:**Ohio CAT
Box 774439
4439 Solutions Center
Chicago, IL 60677-4004CMI MANAGEMENT INC
5285 SHAWNEE ROAD
SUITE 510
ALEXANDRIA VA 22312**For Questions, Please Contact:**Julie Yarber 440-838-7369
jyarber@ohiocat.com**Customer #: 3122009**

MACH ID:	Equipment No:	Terms: 2
Make: CAT	Model 3406	SN: 01DZ10085
		SMU/OD: 930.0

SEG	DESCRIPTION	INVOICE SUMMARY:					
		PARTS	LABOR	MISC	F/R ALL	ADJUST	TOTAL
88	PERFORM ANNUAL PM MAINT				2348.00		2348.00
	SUBTOTAL				2348.00		2348.00
	TRUMBULL SALES TAX			158.49			158.49
	TOTAL			158.49	2348.00		2506.49

PAY THIS
AMOUNT**\$2506.49****Ohio****Service Invoice**

Shipped To:

OHIO COUNTY AIRPORT USAR/AMSA 10
SGT JOE NURRE LANE
WHEELING, WV 26003

PAYMENT TERMS: Net 30 Days from invoice date. A monthly finance charge of 1.5% will be added to all past due amounts. Title to goods remains with seller until full payment is received. Returned parts must be accompanied by invoice or packing list and are subject to a restocking fee. Parts designated with an asterisk (*) are not returnable.

Go Paperless. Receive statements and invoices online 24/7. Register at <https://ohiocat.billtrust.com>

Ohio3993 E. Royalton Rd
Broadview Hts, OH 44147**Service Invoice**

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Ref Doc: YV07707
P.O. Number:
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Sold To: 3122009

CMI MANAGEMENT INC

SEGMENT 88: PERFORM ANNUAL PM MAINT

PERFORM THE ANNUAL PM SERVICE AND INSPECTION AS
PER THE CHECKLIST
IT IS SUGGESTED THAT THE BATTERIES BE REPLACED DUE
TO BEING 3 1/2 YEARS OLD.

F/R ALL:

QUANTITY	PART NO	DESCRIPTION	STK/NON-STK	UNIT PRICE	EXTENSION
1	1R-0749	FILTER AS FU	S		
1	1R-1808	FILTER AS-LU	S		
1	513-4490	FILTER-SEP	S		
1	W12111S	SINGLE W/OUT MAILRS			
			F/R ALL		2348.00
			SEGMENT 88 TOTAL		2348.00

			TRUMBULL SALES TAX		158.49

LIMITED WARRANTY

Ohio CAT warrants all service performed by its service personnel and all New Caterpillar parts provided in connection with such service to be free of workmanship defects for a period of six (6) months or one thousand five hundred (1,500) hours of operation, whichever comes first.

Ohio CAT will repair or replace, at its option, any damaged part involved in the warranty repair.

Unless otherwise agreed by Ohio CAT, such parts and installation labor will be provided without charge to the OWNER/OPERATOR at Ohio CAT's facility or at such other service establishment previously authorized by Ohio CAT at the option of Ohio CAT.

Such repair service is to be provided during provider's regular business hours. OWNER/OPERATOR shall be responsible for all transportation cost associated with transporting the equipment to the site where such repairs are to be performed.

THIS WARRANTY IS NOT APPLICABLE TO FAILURES OR DEFECT RESULTING FROM:

- (a) The use of attachments not sold or approved by Ohio CAT; or
- (b) Installation of components or other repair work not performed by Ohio CAT which, in the judgment of Ohio CAT, is deemed improper; or
- (c) Poor maintenance or abusive operation; or
- (d) An application that exceeds the specified limits in the manufacturer specification.

All repairs made by Ohio CAT pursuant to this warranty shall not extend the stated warranty period and the owner/operator shall be responsible for giving prompt written notice of warrantable failure and promptly making the machine available for repair.

In the event of breach of the above warranty, it is expressly understood that the owner/operator's sole remedy shall be the repair or replacement of any damaged part as specifically provided in this warranty, provided, however, that should the parts prove so damaged as to preclude the remedying of warranted workmanship defects by repair or replacement the owner/operator's sole and exclusive remedy shall then be refund of the purchase price of the parts and labor previously furnished or provided by Ohio CAT.

THE ONLY WARRANTIES APPLYING TO THIS PART(S) ARE THOSE WHICH MAY BE OFFERED BY THE MANUFACTURER. THE SELLING DEALER HEREBY EXPRESSLY DISCLAIMS ALL WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY LIABILITY IN CONNECTION WITH THE SALE OF THIS PART(S) AND/OR SERVICE. BUYER SHALL NOT BE ENTITLED TO RECOVER FROM THE SELLING DEALER ANY CONSEQUENTIAL DAMAGES, DAMAGES TO PROPERTY, DAMAGES FOR LOSS OF USE, LOSS OF TIME, LOSS OF PROFIT, OR INCOME, OR ANY OTHER INCIDENTAL DAMAGES.

CONDITIONS AND LIMITATIONS:

With the above warranties and limitations understood, Ohio CAT shall in no event be liable for any other losses, damages, costs or expenses claimed by the owner/operator, including but not limited to loss from failure of the equipment to operate for any period of time or business interruption, and all other direct, indirect, special, incidental, punitive or consequential damages, including but not limited to lost revenues, lost profits and indirect income loss, regardless of whether such claim is brought under breach of contract, breach of warranty, tort, strict liability, negligence or other theory of law or equity.

INDEMNIFICATION:

In the event that any services performed under this Work Order Invoice are performed at OWNER/OPERATOR'S facility or worksite, OWNER/OPERATOR shall indemnify, defend and hold harmless Ohio CAT from any damages to property or personal injury suffered by Ohio CAT and/or its personnel occurring while on the site of OWNER/OPERATOR'S facility or worksite (except to the extent caused by the negligent or willful actions of Ohio CAT or its personnel), and Ohio CAT shall indemnify, defend and hold harmless OWNER/OPERATOR for damages to property and personal injury caused by the negligent or willful actions of Ohio CAT or its personnel.

THE WARRANTY SET FORTH ABOVE IS GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED AND ALL OTHER WARRANTIES ARE HEREBY DISCLAIMED, INCLUDING WITHOUT LIMITATION LIMITING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE.

Youngstown PSD
Peter Resek

FAX:
PHONE: 330-505-2543

SAMPLE TYPE: OIL

SAMPLE SHIP TIME (days): 2

COMPANY NAME: Ohio CAT Youngstown PSD (YNG-PC)
CUSTOMER EQUIP NUM: 1DZ10085
COMPARTMENT NAME: ENGINE
SERIAL NUMBER: 1DZ10085
MANUFACTURER: CATERPILLAR
MODEL: 3406
JOB SITE: Ohio Cat Youngstown PSD
EXT WARR NUMBER:

SHOP JOB NUM: YV07707
COMP SERIAL NUM:
COMPARTMENT MODEL:
COMP MANUFACTURER:
SAMPLE LABEL NUM:
FLUID BRAND/WEIGHT: CAT/15W-40
FLUID TYPE:
EXT WARR EXPIRE DATE:
FUEL CONSUMED:



3993 E. Royalton Road

Broadview Heights, OH 44147
440-838-7258 (DCompton@OhioCat.com)
www.ohiocat.com

LAB CONTROL NUMBER	SAMPLE DATE	PROCESS DATE	EQUIPMENT METER	METER ON FLUID	FLUID CHANGED	MAKE UP FLUID	MAKE UP FLUID UNITS	FILTER CHANGED
B330-49032-0043	30-Jan-2019	01-Feb-2019	930 HR	140 HR	Yes			Yes
No Action Required		NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.						
B330-47240-0068	22-Aug-2017	28-Aug-2017	791 HR	118 HR	Yes			Yes
No Action Required		NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.						
B330-46228-0199	10-Aug-2016	15-Aug-2016	673 HR	103 HR	Yes			Yes
No Action Required		NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.						
B330-45203-0170	17-Jul-2015	22-Jul-2015	569 HR	231 HR	Yes			Yes
No Action Required		NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.						

Wear Metals (ppm)	Cu	Fe	Cr	Al	Pb	Sn	Si	Na	K	B	Mo	Ni	Ag	Ti	V	Ca	Mg	Zn	P	Ba
B330-49032-0043	3	6	0	1	0	3	6	6	8	3	5	0	0	2	0	3538	414	1866	1569	
B330-47240-0068	5	5	2	0	2	0	0	2	9	9	4	2	3	10	3	2647	295	1471	1281	2
B330-46228-0199	3	6	0	0	0	0	0	5	8	53	4	0	0	73	1	1895	257	1101	1063	0
B330-45203-0170	5	7	1	0	1	0	2	1	7	25	4	0	0	4	1	2669	260	1390	1234	0

Oil Condition / Particle Count (ct/ml)	ST	OXI	NIT	SUL	W	A	F	V100
B330-49032-0043	0	14	6	17	N	N	N	12.7
B330-47240-0068	2	9	3	6	N	N	N	13.9
B330-46228-0199	1	7	2	5	N	N	N	14.8
B330-45203-0170	9	12	5	9	N	N	N	13.8

Ag = Silver, Al = Aluminum, B = Boron, Ca = Calcium, Cr = Chromium, Cu = Copper, Fe = Iron, P = Phosphorus, K = Potassium, Li = Lithium, Mg = Magnesium, Mo = Molybdenum, Na = Sodium, Ni = Nickel, Pb = Lead, Si = Silicon, Sn = Tin, S = Sulphur, V = Vanadium, Zn = Zinc, A = Antifreeze, F = Fuel, W = Water, P = Positive, N = Negative, T = Trace, E = Excessive, NIT = Nitration, OXI = Oxidation, ST = Soot, SUL = Sulfation, ISO = ISO Rating, PFC = Percent Fuel Content, PQI = Particle Quantifying index, NaW = Salt Water, FL Pt = Flash Point, TAN = Total Acid Number, TBN = Total Base Number, H2O = Karl Fisher result, V100 = Viscosity@100C, V40 = Viscosity@40C, PVI = Particle Volume Indicator

Notice: This analysis is intended as an aid in predicting mechanical wear. No guarantee, expressed or implied, is made against failure of this piece of equipment or a component thereof.



Preventive Maintenance Standby Engine Checklist

Customer: CMI MANAGEMENT INC
Site Contact: ABE ABRAHAM
Contact Number: 703-738-5312
Technician: JEFF MYERS
Site Address: OHIO COUNTY AIRPORT
109 SGT JOE NURRE LN
WHEELING WV 26003

Customer No: 3122009
Work Order No: YV07707
PM Date: 1-30-19
Voltage: 0
kW Rating:
Unit Number:
Unit Hours: 930

	Make:	Model:	Serial #:
Package:	CATERPILLAR	3406	01DZ10085
Engine:	CATERPILLAR	3406	01DZ10085
Service Type:	Annual PM Service		
Optional Services [†] :	<input type="checkbox"/> Coolant Sample	<input type="checkbox"/> Fuel Sample	<input type="checkbox"/> Loadbank Test

[†]Optional Services are included at the customer's request

Monthly PM Service

#	Cooling System:	N/A:	OK:	Monitor:	Action:	Comments:
1	Visually Inspect Radiator/Heat Exchanger for Leaks, Damage and Obstruction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Add Coolant to Bring the Coolant to the Correct Level ____ Gal.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Inspect Condition of Radiator Cap, Gasket and Sealing Surface	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Visually Inspect Water Pump and Cooling System Gaskets for Leaks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Inspect Flexible Water Connections for Cracking, Leaks and Pliability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6	Inspect Pulleys for Excessive Wear	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	Inspect Belts for Cracking and Fraying	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8	Check Belt Tension	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9	Check Jacket Water Heater(s) for Proper Operation and Adjust Thermostat Setting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Lubrication System:	N/A:	OK:	Monitor:	Action:	Comments:
10	Add Crankcase Oil to Bring to the Correct Level (Change Oil and Filters for Annual PM)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11	Inspect the Oil Heater for Proper Operation and Check Thermostat Seals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12	Visually Inspect Front and Rear of Crankshaft Seals and Lubrication System	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13	Check Governor Oil Level and Add Oil as Needed ____ Qts.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Fuel System:	N/A:	OK:	Monitor:	Action:	Comments:
14	Test Day Tank Pump for Proper Operation and Level	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
15	Drain Water from Water Separator	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
16	Operate Fuel Priming Pump and Check for Proper Operation and Leaks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
17	Check the Engine's Fuel System for Leaks	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

18	Inspect Flexible Fuel Lines for Cracking, Leaks and Pliability	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
19	Record Fuel Level in Main Fuel Tank Gal. <u>1/2</u> Inches	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Starting System:	N/A:	OK:	Monitor:	Action:	Comments:
20	Top Off Electrolyte Level	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
21	Check and Record Battery Charger Amp Equ. Rate: <u>.5</u> Amps Float Rate: <u>1.0</u> Amps	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
22	Check Battery Charger and Adjust Float Rate for Optimum Battery Performance and Life: Equ. Volts: <u>27.0</u> VDC Float Volts: <u>28.5</u> VDC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Air Intake System:	N/A:	OK:	Monitor:	Action:	Comments:
23	Inspect Air Filters for Plugging and Deterioration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Exhaust System:	N/A:	OK:	Monitor:	Action:	Comments:
24	Inspect Flexible Exhaust Coupling for Cracks and Excessive Leakage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
25	Inspect Exterior of Exhaust Manifolds for Oil or Fuel Slobbering (signs of wet stacking)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
26	Inspect Exhaust Rain Protection and/or Exhaust Outlet Screening	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Miscellaneous:	N/A:	OK:	Monitor:	Action:	Comments:
27	Inspect Generator Set Vibration Isolators and Adjust as Needed	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
28	Make a Walk Around Inspection of Complete Installation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Electrical Control System:	N/A:	OK:	Monitor:	Action:	Comments:
29	Perform an Operational Check of Illumination and Safety Lamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
30	Check for Unit On-Line Capability in Less Than Ten Seconds	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
31	Check for Proper Cranking Termination Upon Starting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
32	Check for Proper Operation of Engine and Gen. Instruments with Generator Running	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
33	Adjust Governor Control for Optimum Performance and Frequency <u>60</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
34	Adjust Voltage Regulator for Proper Voltage <u>480</u> VAC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
35	Check and Record Alternator Voltage with Engine Running <u>27</u> VDC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Operational Checks:	N/A:	OK:	Monitor:	Action:	Comments:
36	Check for Abnormal Noise or Vibration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
37	Check for Abnormal Exhaust Characteristics with Engine Running (signs of wet stacking)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
38	Check for Proper Operation of Remote Fan Motors, Thermostats, Circulating Pumps, and Solenoid Valves	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
39	Check Inlet and Discharge Louvers with Engine running and stopped	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
40	Check for Excessive Crankcase Blow-by with Engine Running	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
41	Re-Check Oil Level with Engine Running	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
42	Re-Check for Leaks with Engine Running	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Quarterly PM Service

#	Fuel System:	N/A:	OK:	Monitor:	Action:	Comments:
43	Stick Main Tank for Water _____ Gal. _____ Inches	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
44	Inspect Steel Fuel Lines for Cracks, Leaks and Proper Line Bracket Support	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Starting System:	N/A:	OK:	Monitor:	Action:	Comments:
45	Tighten Battery Cable Connections as Needed	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
46	Clean and Apply Corrosion Inhibitor to Terminals of Only Lead Acid Batteries as needed	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
47	Inspect and Tighten Starter Motor Connections and Wiring	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Air Intake System:	N/A:	OK:	Monitor:	Action:	Comments:
48	Test Air Cleaner Indicator	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Semi-Annual PM Service

#	Cooling System:	N/A:	OK:	Monitor:	Action:	Comments:
49	Analyze Coolant for Proper Antifreeze Protection _____ -32 Deg.F	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
50	Analyze Conditioner SCA Level and Add Additional SCA as Needed _____ PPM LLC Yes/No: _____ LLC Extender: _____ Qts.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
51	Re-Torque Hose Clamps	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Lubrication System:	N/A:	OK:	Monitor:	Action:	Comments:
52	Clean Crankcase Breather, Inspect Hose and Connections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
53	Lubricate Fan Drive with Caterpillar Bearing Lubricant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
54	Lubricate Governor Linkage with Caterpillar Bearing Lubricant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
55	Lubricate Generator Bearing with Caterpillar Bearing Lubricant	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Fuel System:	N/A:	OK:	Monitor:	Action:	Comments:
56	Test Day Tank Alarms	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
57	Drain Water and Sediment From Day Tank (if accessible)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
58	Clean or Replace Inlet Filters for Day Tank	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
59	Clean Primary Fuel Filter (if screen type)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Starting System:	N/A:	OK:	Monitor:	Action:	Comments:
60	Check and Record Battery Cells Electrolyte Specific Gravity	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Air Intake System:	N/A:	OK:	Monitor:	Action:	Comments:
61	Inspect Air Cleaner Seal for Pliability and Sealing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
62	Check All Air Intake Piping for Damage and Loose Connections	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
63	Inspect Turbocharger for Seal Leakage and Excessive End Play Clearance (if accessible)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Exhaust System:	N/A:	OK:	Monitor:	Action:	Comments:
64	Drain Water in Exhaust Moisture Traps	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
65	Inspect Exhaust Manifold(s) for Broken or Missing Hardware	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

#	Generator:	N/A:	OK:	Monitor:	Action:	Comments:
66	Check Rotor Air Gap for Correct Clearances	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
67	Check Tightness of Generator Leads and Voltage Regulator Control Wiring	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
68	Strap and Tape any Wiring or Generator Leads that Have Rubbing or Worn Insulation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
69	Inspect Brushes and Slip Rings or Rotating Rectifiers	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
70	Clean and Adjust Voltage Droop Potentiometer	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
71	Inspect Rotor and Stator for Damage and Excessive Oil and/or Dirt Build Up	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Miscellaneous:	N/A:	OK:	Monitor:	Action:	Comments:
72	Inspect Coupling and Guards for Loose or Missing Parts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Electrical Control System:	N/A:	OK:	Monitor:	Action:	Comments:
73	Check for and Tighten Loose Terminals on the Generator Set and Generator Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
74	Check Tightness of Relays in the Generator Control Panel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
75	Inspect for Excessive Dirt Accumulation in the Control Panel and Clean as Needed	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
76	Test Auto-Start System	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
77	Test Safeties and Pre-alarms on Control and Announcer Panels	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
78	Check and Record Battery Voltage Dip Level During Overcrank Test for Minimum Voltage Required to Maintain Controls During Starting 26.5 VDC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
79	Record Field Voltage During Generator No-Load Run for Base Line _____ VDC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
#	Operational Checks:	N/A:	OK:	Monitor:	Action:	Comments:
80	Take Oil Sample (after operational checks) for Caterpillar S.O.S. Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Annual PM Service

#	Filter Replacement:	N/A:	OK:	Monitor:	Action:	Comments:
91	Oil Filter Replacement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
92	Fuel Filter Replacement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
93	Oil Drain and Replacement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

#	Back In Service Checks:	N/A:	OK:	Monitor:	Action:	Comments:
S0	Reset All Controls to Automatic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
S1	Set Circuit Breaker to Correct Position	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
S2	Check Fuel Valves for Correct Position	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
S3	Check Voltage Regulator is ON and NOT Tripped	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
S4	Check Battery Charger is ON	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
S5	Check Day Tank Controls are ON	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
S6	Check Remote Radiator Fan Controls are ON	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
S7	Check Auxiliary Water Pump Controls are ON	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
S8	Check Jacket Water Heater(s) are ON	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
S9	Check Louver Controls are ON	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Battery Installation Date: 7/5/2015

Battery Qty: 2

Maintenance Free?

Battery Mfg:	caterpillar	Group No:		Part No:	1535700
Cells	Battery / String				
	A	B	C	D	E
1:					
2:					
3:					
4:					
5:					
6:					

Additional Notes:

It is suggested that batteries be replaced every 3 years on generators, this battery was installed on 7-5-2015.

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