



Patten Power Systems 615 W Lake Street Elmhurst, IL 60126 (877) 891-4181

November 14, 2017

Lake County Government  
18 North County Street  
Waukegan, IL 60085  
Attn: Mike Topp  
Phone: (847) 833-3322  
E-mail: [mtopp@lakecountyil.gov](mailto:mtopp@lakecountyil.gov)  
Customer Number: 2149065  
Quote Number: A199912

**All pricing is valid 12/1/17-11/30/21**

Dear Mike,

Below you will find a list of services for your equipment as recommended by the manufacturer. Attached for your review is a description and cost breakdown for each service.

* Weekly/monthly Inspections	Performed by customer (checklist enclosed)
* Advantage Silver <sup>sm</sup> Service	Performed by a trained Patten technician (checklist enclosed)
* Advantage Gold <sup>sm</sup> Service	Performed by a trained Patten technician (checklist enclosed)
* Load Bank Test	Performed by a trained Patten technician (checklist enclosed)
* Transfer Switch Maintenance	Performed by a trained Patten technician (checklist enclosed)

**MONTHLY WALK AROUND INSPECTION:**

Patten recommends that your generator be inspected monthly by an individual with basic mechanical knowledge and inspects the following items:

1. Walk around inspection: Check engine, radiator and generator for leaks, debris, foreign objects, broken or missing parts.
2. Belts: Inspect for worn, broken or loose belts.
3. Cooling system: Maintain proper coolant level
4. Block Heater: Check for proper operation
5. Engine Oil Level: Check and maintain proper engine oil level
6. Fuel System: Inspect for leaks or cracked piping
7. Batteries: Check for loose connections, corrosion and general battery condition (electrolyte level if possible)
8. Gauges and Control Panel: Inspect for broken gauges, check warning lights for operation
9. Battery Charger: Inspect for proper operation

**ANNUAL ADVANTAGE GOLD<sup>sm</sup> SERVICE:**

Patten recommends that Advantage Gold<sup>sm</sup> Inspection and Maintenance be performed on your generator by an experienced and factory trained technician. See our Advantage Gold<sup>sm</sup> breakdown for the 53-point inspection and maintenance details.

**ADVANTAGE SILVER<sup>sm</sup> SERVICE:**

Patten recommends that Advantage Silver<sup>sm</sup> inspection be performed on your generator about 6 months after the Gold Service by an experienced and factory trained technician. See our Advantage Silver<sup>sm</sup> breakdown for the 49-point inspection details.

**ANNUAL LOAD BANK TESTING:**

Patten recommends an annual load bank test on standby generators if, the unit does not run at 50% or greater load at least one hour monthly. Load bank testing will:

- Eliminate wet stacking by burning off un-burnt fuel, oil and carbon in the cylinders and exhaust system.
- Exercise and test the unit's fuel and cooling systems.
- Evaporate moisture from inside the generator and engine.

**ADVANTAGE SILVER<sup>sm</sup> SERVICE**

During Patten's Advantage Inspection and Maintenance, our factory-trained technician will perform the maintenance and submit a written report on the following systems:

**Cooling System**

- Radiator / Heat Exchanger
- Antifreeze Protection and Level
- Hoses and Connections
- Fan Drive Pulley and Fan
- Fan Belt(s)
- Jacket Water Heater(s) \*
- Water Pump(s)
- Thermostat(s)

**Fuel System**

- Day Tank Level and Gauge
- Fuel Line and Connections
- Governor and Controls
- Fuel Filter(s)
- Fuel Pressure

**Air Induction And Exhaust**

- Air Filter(s)
- Air Filter Service Indicator(s)
- Air Inlet System
- Turbocharger(s) \*
- Exhaust Manifold(s)
- Exhaust System
- Valves and Rotators (at valve adjustment only)
- Louver Operation

**Lube Oil System**

- Oil (Check Level)
- Oil Filter(s)
- Magneto / Distributor
- Crankcase Breather

**Starting System**

- Check Battery (ies)
- Check Specific Gravity
- Battery Charger
- Starting Motor(s)
- Alternator \*

**Engine Monitors, Safety Controls and Control Panel**

- Gauges
- Safety Controls
- Remote Annunciator / Alarms \*
- Start Controls / Manual and Auto
- Voltmeter
- Ammeter
- Frequency Meter
- Circuit Breaker

**Generator**

- Bearings
- Slip Rings and Brushes \*
- Space Heater(s) \*
- Vibration Isolator \*
- Wiring Connections
- Cable Connections

**Gas Engines Only**

- Gas Line and Connections
- Carburetor and Linkage
- Oil Pressure
- Ignition System

**ADVANTAGE GOLD<sup>sm</sup> SERVICE**

Advantage Gold<sup>sm</sup> includes all Advantage Silver<sup>sm</sup> inspections as well as the following items:

- Change Oil and Filter(s)\*\*
- Change Fuel Filter(s)\*\*
- Maintain Water Separator \*
- Laboratory Analyzed Engine Oil Sample
- Lubricate Fan Pulley
- Grease Generator Bearings\*
- Laboratory Analyzed Engine Coolant Sample

\*If Applicable

\*\*Dispose of waste per EPA regulations



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### **TRANSFER SWITCH MAINTENANCE:**

Patten recommends an annual transfer switch inspection and maintenance. Transfer switch inspections and maintenance can identify and locate potential problems before they occur. This service will increase reliability and reduce the chance of failure during a power outage. Patten's transfer switch services comply with NFPA 110 Section 8.3.5 2005 edition requirements.

### **AUTOMATIC TRANSFER SWITCH MAINTENANCE SCOPE:**

#### **10 Point Inspection:**

- 1) Inspect for moisture or wetness, past or present
- 2) Inspect insulating materials for deterioration due to excessive heat
- 3) Inspect control relay contacts for corrosion or discoloration, due to excessive heat
- 4) Conduct a test by simulation a normal power source failure.
- 5) Check operating current level versus rating.
- 6) Record all time delay settings, pickup and dropout setting and timer settings.
- 7) Record and compare the voltage drop across main contacts.
- 8) Check and record cable connections and contacts with infrared thermometer.
- 9) Check all cables and control wire connections to the ATS controls, sensing panel and other system components. Tighten if necessary.
- 10) Check the battery in the controller



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**Olympian / Caterpillar D50-6 S/N GLD00459**  
**Depke Juvenile Justice Complex (Vernon Hills)**

	<b><u>2018</u></b>	<b><u>2019</u></b>	<b><u>2020</u></b>	<b><u>2021</u></b>
<input type="checkbox"/> Advantage Silver <sup>SM</sup> Service	\$ 412.00	\$ 424.00	\$ 437.00	\$ 450.00
<input type="checkbox"/> Advantage Gold <sup>SM</sup> Service	\$ 996.00	\$ 1,046.00	\$ 1,098.00	\$ 1,153.00
<input type="checkbox"/> Load Bank Test 50kW 2 Hour run up to 100%.	\$ 807.00	\$ 831.00	\$ 856.00	\$ 881.00
<input type="checkbox"/> Transfer Switch Service (Total of 2) 10-Point Inspection -\$163.00 per Switch	\$ 326.00	\$ 326.00	\$ 326.00	\$ 326.00
<b>Total Service Amount</b>	<b>\$ 2,541.00</b>	<b>\$ 2,627.00</b>	<b>\$ 2,717.00</b>	<b>\$ 2,810.00</b>

Automatic Transfer Switch (ATS) 10-point inspections can be combined and performed during an Advantage Silver<sup>SM</sup> service.

- BASED ON MONDAY-FRIDAY REGULAR HOUR LABOR RATES
- CUSTOMER HAS THE OPTION TO ADD OR DELETE EQUIPMENT AT ANY TIME
- BASED ON TRANSFER SWITCH SERVICE AND SILVER SERVICE PERFORMED SAME DAY
- PRIMARY AIR FILTER CHANGED AS NEEDED AT ADDITIONAL CHARGE
- BATTERIES AND COOLANT CHANGED AS NEEDED AT ADDITIONAL CHARGE
- PRICE QUOTE VALID FOR 90 DAYS



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**CAT C32 SXC004813**  
**Permit Facility**

	<b><u>2018</u></b>	<b><u>2019</u></b>	<b><u>2020</u></b>	<b><u>2021</u></b>
<input type="checkbox"/> Advantage Silver <sup>SM</sup> Service	\$ 632.00	\$ 651.00	\$ 670.00	\$ 690.00
<input type="checkbox"/> Advantage Gold <sup>SM</sup> Service	\$ 1,646.00	\$ 1,728.00	\$ 1,814.00	\$ 1,905.00
<input type="checkbox"/> Load Bank Test 1000kW 2 Hour run up to 100%.	\$ 2,034.00	\$ 2,095.00	\$ 2,158.00	\$ 2,223.00
<input type="checkbox"/> Transfer Switch Service (Total of 1) 10-Point Inspection -\$163.00 per Switch	\$ 163.00	\$ 163.00	\$ 163.00	\$ 163.00
<b><u>Total Service Amount</u></b>	<b><u>\$ 4,475.00</u></b>	<b><u>\$ 4,637.00</u></b>	<b><u>\$ 4,805.00</u></b>	<b><u>\$ 4,981.00</u></b>

Automatic Transfer Switch (ATS) 10-point inspections can be combined and performed during an Advantage Silver<sup>SM</sup> service.

- BASED ON MONDAY-FRIDAY REGULAR HOUR LABOR RATES
- CUSTOMER HAS THE OPTION TO ADD OR DELETE EQUIPMENT AT ANY TIME
- BASED ON TRANSFER SWITCH SERVICE AND SILVER SERVICE PERFORMED SAME DAY
- PRIMARY AIR FILTER CHANGED AS NEEDED AT ADDITIONAL CHARGE
- BATTERIES AND COOLANT CHANGED AS NEEDED AT ADDITIONAL CHARGE
- PRICE QUOTE VALID FOR 90 DAYS

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**Warranty:**

Patten warrants the work performed to be free from defects in material and workmanship for a period of twelve months. Patten's obligation under this warranty shall be limited to the repair or replacement, whichever Patten elects, at Patten's premises, of those parts previously installed, or labor previously performed, which are found, upon its inspection, to be defective. Such remedy shall constitute Customer's sole and exclusive remedy and Customer hereby agrees that no other remedy (including, but not limited to, claims for INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, OR ANY CAUSE, LOSS, ACTION, CLAIM OF DAMAGE, INCLUDING LOSS OF TIME, WHATSOEVER, OR INJURY TO PERSON OR PROPERTY OR ANY OTHER CONSEQUENTIAL DAMAGE OR INCIDENTAL OR ECONOMIC LOSS) shall be available to Customer. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTIES FOR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nonstandard repair work will be performed upon request of Customer and according to Customer's instructions but such work will carry absolutely no warranty whatsoever.

**FINANCIAL TERMS:**

Net cash 30 days upon receipt of invoice, with credit approval. Equipment and services will be invoiced at the contracted amount when project is completed. Retainers are not allowed unless previously negotiated and are identified in this proposal. Late charges of 1-1/2% per month will be assessed for late payments and customer will also be responsible for any collection costs and expenses, including reasonable attorney's fees. Sales tax is **NOT** included in the purchase price and will be charged at the current tax rate, if applicable.

**ADDITIONAL TERMS and CONDITIONS:**

The scope of supply for this quotation is limited to the equipment and services listed in this proposal. Unless specifically listed in our bill of material, equipment and services not indicated are to be supplied by others. We reserve the right to correct any errors or omissions. Customer's signature on this quotation or the issuance of a purchase order or other acknowledgement by customer for the equipment and services shall constitute acceptance of this quotation subject only to the terms and conditions set forth herein and notwithstanding any terms and conditions contained in any such purchase order or other acknowledgment or communication from the customer which are different from or in addition to the terms and conditions of this quotation. Changes to the terms of this quotation may only be made by the express written agreement of Patten Power Systems. Patten Power Systems shall not be responsible for any consequential, special, indirect or liquidated damages hereunder or for any manufacturer or other delays beyond Patten's control. Patten Power Systems will not be responsible for any labor or material charges by others associated with the supply of our services and equipment unless previously agreed upon, in writing by Patten Power Systems. This quotation expires in 90 calendar days or sooner with notice and is subject to prior sale. The prices stated herein are subject to increases if the order is not executed within 90 calendar days from order date. Buyer may terminate or cancel an order by written notice and upon payment of appropriate charges based upon Patten's actual expenses and a reasonable profit. Mileage Rate is based on Crude World Trade Index at time of quotation. Patten reserves the right to increase the effective Mileage Rate charged to reflect increases in the Index at the time services are provided.

Thank you for your business and please call me if you have any questions or to schedule service.

ACCEPTANCE:

PATTEN POWER SYSTEMS

\_\_\_\_\_  
Customer Signature

\_\_\_\_\_  
George Danovsky  
Patten Power Systems  
Product Support Sales Representative  
Mobile: 630.669.3236  
Fax: 630.563.9031  
danovsky@pattencat.com

\_\_\_\_\_  
Purchase Order #

\_\_\_\_\_  
Date