

# 2024 Overhaul ESC for Industrial Engines Let's Do The Work!

For more information, contact one of our Milton Cat Power Systems Service Supervisors nearest your location today!

- Receive a quote today
- Ask about special discount offers
- Ask about special financing
- Schedule your down time
- Protect your investment



For more information  
Contact us at:  
603-665-4570 or email  
[esc@miltoncat.com](mailto:esc@miltoncat.com) to  
extend or for a quote.

Rhonda Gelinias  
603-665-4516

Note: Pricing is subject to change without notice.

**Milton**





# INDUSTRIAL STRENGTH EXTENDED PROTECTION



## Extended Service Coverage (ESC) INDUSTRIAL ENGINES

Your operation depends on reliable power. That's why you specify Cat® industrial engines. With Extended Service Coverage (ESC), you get service coverage that's just as durable and long-lasting—so you can spend less time managing your engines and more time running your business. ESC for new, used and overhauled engines is built to protect your investment and your peace of mind.

**BUILT FOR IT.™**

**CAT**<sup>®</sup>  
Financial





## A VARIETY OF COVERAGE OPTIONS

- > New ESC: coverage for new engines
- > Advantage ESC: coverage for used engines
- > Overhaul ESC: coverage for overhauled engines

## ESC BENEFITS

- > Protect your investment with coverage for parts and labor expense on covered components (less any applicable deductible)
- > Avoid unexpected repair costs caused by unscheduled repairs
- > Make sure repairs are done right the first time with factory-trained technicians using genuine Cat parts
- > Get back to work fast with engines performing at their best
- > Return your engine to its original operating specifications, meeting all requirements for safe use and environmental compliance
- > Choose from multiple levels of coverage to fit your budget
- > Combine ESC with a Customer Support Agreement for complete maintenance and repair protection

### WHY ESC?

- > **GLOBAL COVERAGE:** Our ESC is available everywhere—whether your industrial engine is stationary, in a single location or powering a machine that works around the world.\*
- > **LOCAL EXPERTISE:** Trained technicians at more than 2,500 Caterpillar authorized service locations have the experience, training and tools to repair your industrial engine quickly and accurately.
- > **EASE OF DOING BUSINESS:** Our pricing terms are simple, and you can customize coverage options to fit your individual needs.
- > **PEACE OF MIND:** When you choose ESC, you can be confident knowing your investment is protected by the power of Caterpillar.
- > **HISTORY OF PROTECTION:** Your Cat dealer is backed by Cat Financial—together, we've been providing product support through ESC programs to industrial engine customers since 1986.

\*Except where prohibited.

For more details, contact your local Cat dealer about ESC today.

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Cat® Extended Service Coverage (ESC)

# 4 EASY STEPS TO PROTECT YOUR INDUSTRIAL ENGINE

Your operation depends on reliable power. That's why you specify Cat® industrial engines. With Extended Service Coverage (ESC), you get additional service that's just as durable and long-lasting. ESC for **new, used and overhauled industrial engines** protects your investment and your peace of mind. Choosing coverage is as easy as following these four steps.

## 1 CHOOSE FROM A VARIETY OF COVERAGE OPTIONS

First, extend your protection beyond the original factory warranty by choosing the coverage option that's right for your situation.

<b>NEW ESC</b>	Coverage for industrial engines is available in 24- to 60-month terms, in 12-month increments, if purchased before the end of your original factory warranty.
<b>ADVANTAGE ESC</b>	Your engine is eligible if it meets all of the following criteria: <ul style="list-style-type: none"><li>&gt; Within defined age and usage hour limitations</li><li>&gt; Not previously overhauled</li><li>&gt; Passes Advantage inspection requirements administered by a Cat authorized dealer (if applicable by program).</li></ul>
<b>OVERHAUL ESC</b>	Coverage is available in 12- to 60-month terms, in 12-month increments. Your industrial engine is eligible once a qualifying overhaul has been completed by an authorized Cat dealer in accordance with the Overhaul ESC Checklist.

## 2 IDENTIFY YOUR COVERAGE NEEDS

Next, identify the age and current operating hours of your industrial engine since delivery or overhaul. Then calculate your annual hours of use to choose the best ESC coverage terms to fit your needs.

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### 3 SELECT YOUR COVERAGE LEVEL

Then, choose from our Silver, Gold, Platinum or Platinum Plus coverage levels (New and Advantage ESC only) to get the exact amount of protection you need based on the Coverage Matrix<sup>1</sup> and Additional Allowances. Overhaul ESC options are also available. Contact your local Cat dealer for details.

#### COVERAGE MATRIX<sup>1</sup>

Cooling System	Silver	Gold	Platinum <sup>2</sup>
Thermostat Housing	✓	✓	✓
Water Manifold Housing	✓	✓	✓
Jacket Water Precooler	✓	✓	✓
Jacket Water Pump		✓	✓
Thermostat			✓
Radiator & Fan			✓
Fuel System			
Steel Fuel Lines	✓	✓	✓
Fuel Shutoff Solenoid	✓	✓	✓
Fuel Injectors		✓	✓
Fuel Transfer Pump & Housing			✓
Fuel Priming Pump			✓
Fuel Transfer Pump			✓
Lubrication System			
Pan, Pump Cooler	✓	✓	✓
Crankcase Breather			✓
Engine Oil Pump Drive			✓
Prelubrication Pump			✓
Electric System			
Control Module (ECM)	✓	✓	✓
Sensors: All Engine Sensors	✓	✓	✓
Wiring Harness & Connectors			✓
Starter			✓
Engine Alternator			✓

Air Induction & Exhaust	Silver	Gold	Platinum <sup>2</sup>
Exhaust Manifolds, Studs & Gaskets	✓	✓	✓
Inlet Air Heater Relay	✓	✓	✓
Intake Manifold	✓	✓	✓
Turbocharger(s)		✓	✓
Air-to-Air Aftercooler Cores			✓
Muffler/Exhaust System			✓
Exhaust Guards			✓
Diesel Oxidation Catalyst			✓
Short Block			
Cylinder Block Casting	✓	✓	✓
Crankshaft	✓	✓	✓
Connecting Rod Assembly	✓	✓	✓
Piston, Wrist Pin, Retainer Clip & Piston Rings	✓	✓	✓
Idler and Timing Gears			✓
Accessory Drive			✓
Cylinder Head			
Cylinder Head	✓	✓	✓
Intake & Exhaust Valves	✓	✓	✓
Valve Mechanism	✓	✓	✓
Camshaft, Camshaft Bearings, Key, Gear	✓	✓	✓
Front & Rear Covers			
Front Cover/Plate/Housing/Gears & Gaskets	✓	✓	✓
Vibration Damper	✓	✓	✓
Flywheel Housing & Gasket	✓	✓	✓
Crankshaft Front & Rear Seal			✓
Optional Aftertreatment Coverage			
Diesel Particulate Filter	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>
Selective Catalytic Reduction	✓ <sup>3</sup>	✓ <sup>3</sup>	✓ <sup>3</sup>

1 This Coverage Matrix is for reference only and does not represent a complete list of covered components. For additional information, please reference the appropriate ESC contract.

2 Platinum level coverage covers all as-shipped consist from the factory with Cat part numbers. Some exclusions may apply.

3 Recent emissions-compliant industrial engines may be equipped with a Diesel Particulate Filter (DPF) and/or a Selective Catalytic Reduction (SCR). We offer coverage at an additional cost on these emissions components. Silver, Gold, Platinum or Platinum Plus base level coverage is required.

Platinum Plus goes beyond Platinum coverage to include Cat components installed by an authorized dealer. Such components must be approved. See your Cat dealer for details.

#### ADDITIONAL ALLOWANCES

Engine Displacement <sup>4</sup>	Travel/Mileage Limitations		Emergency Freight	Overtime	Disconnect & Connect
	Silver, Gold, Platinum	Platinum Plus Only	All Coverage Levels	Platinum Plus Only	Platinum Plus Only
Up to 4 liters	2 hr/100 mi or 161 km	2 hr/100 mi or 161 km	\$500 USD	\$3,000 USD	\$1,500 USD
Over 4 liters up to 7.5 liters	4 hr/200 mi or 322 km	10 hr/500 mi or 805 km	\$500 USD	\$3,000 USD	\$1,500 USD
Over 7.5 liters	8 hr/320 mi or 515 km	10 hr/500 mi or 805 km	\$500 USD	\$3,000 USD	\$1,500 USD

4 Please refer to the industrial engine spec sheets for particular engine displacement.

### 4 PURCHASE AND REGISTER YOUR ESC

Finally, work with your local Cat dealer to complete the process—and get the protection and peace of mind you deserve.

This marketing tool does not represent a contract or obligation of any kind between Cat Financial Insurance Services, its parent or affiliates, and the equipment owner. For details on any dealer agreement, including a complete description of the terms, conditions, and/or exclusions, contact your local Cat dealer. All graphics and lists in this marketing tool are provided solely for general information purposes and are not intended to be a solicitation or an offer to sell any product or service.

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# COMMERCIAL ENGINE OVERHAUL EXTENDED SERVICE COVERAGE (ESC)

## Overhaul ESC for Commercial Engines or Gensets Registration Certificate

Effective Date: January 1, 2021

CUSTOMER NAME: \_\_\_\_\_ PHONE: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_  
 STATE / PROVINCE: \_\_\_\_\_ POSTAL CODE: \_\_\_\_\_ COUNTRY: \_\_\_\_\_

CAT® DEALER: \_\_\_\_\_ DEALER CODE: \_\_\_\_\_  
(non-U.S. Provider):  
 ADDRESS: \_\_\_\_\_ CITY: \_\_\_\_\_  
 STATE / PROVINCE: \_\_\_\_\_ POSTAL CODE: \_\_\_\_\_ COUNTRY: \_\_\_\_\_

**U.S. Provider:** See Section XV for details.

### REGISTRATION DETAIL

Application:	Genset or Engine Only	Product Information:	Overhaul Start Date and Hours:
Electric Power: <input type="checkbox"/>	Genset: <input type="checkbox"/>	Serial Number: _____	Overhaul Date: _____
Industrial: <input type="checkbox"/>	*Engine Only: <input type="checkbox"/>	Model: _____	Hours at Overhaul: _____
Marine Pleasure Craft: <input type="checkbox"/>	<b>Not available for Genset</b>	Delivery _____	<b>NOTE:</b> Overhaul ESC registration requires completion of the Overhaul ESC Checklist. Please reference the correct checklist for this application.
Marine Revenue: <input type="checkbox"/>		Emissions Level _____	
Petroleum: <input type="checkbox"/>			

### COVERAGE OPTIONS AND TERMS

Coverage Type:	*Component Coverage:	Coverage Terms:	Special Quote Number, if applicable :
Major Basic: <input type="checkbox"/>	Turbocharger: <input type="checkbox"/>	Months: _____	<input type="radio"/> Immediate coverage start begins on _____ @ _____ hours. <input type="radio"/> Delayed Coverage Start begins on _____ @ _____ hours. No greater than 1 year from date of overhaul.
Top End Basic: <input type="checkbox"/>	Cylinder Heads: <input type="checkbox"/>	Contract Hours: _____	
Major Platinum: <input type="checkbox"/>	Jacket Water Pump: <input type="checkbox"/>	Deductible: _____	
Top End Platinum : <input type="checkbox"/>	<b>* Only available with Basic Coverage</b>		
Major Platinum Plus: <input type="checkbox"/>			
Top End Platinum Plus: <input type="checkbox"/>			

Overhaul ESC Fee U.S.D. \$ \_\_\_\_\_  
 Admin Fee U.S.D. \$ \_\_\_\_\_  
 Applicable Taxes U.S.D. \$ \_\_\_\_\_  
**ESC Credit (Upgrades only):** U.S.D. \$ \_\_\_\_\_  
**Total:** U.S.D. \$ \_\_\_\_\_

**LIMIT OF LIABILITY:**

The maximum amount we will pay for any single claim will be the reasonable cost to repair or replace the covered equipment, not to exceed Caterpillar's list price for equivalent covered equipment.

I hereby certify that I have read and understand the terms and conditions checked above and as specified within the additional number of pages indicated on the bottom of this Registration Certificate .

I hereby certify that the engine serial number indicated above is eligible for the Overhaul Extended Service Coverage as specified on this Registration Certificate and have read and understand the Dealer's responsibilities as specified in the Commercial Engine ESC Dealer Administration Manual.

Customer Signature \_\_\_\_\_ Date \_\_\_\_\_ Authorized Dealer Representative \_\_\_\_\_ Date \_\_\_\_\_

**This contract is not valid until registered**

Distribution: Original - Customer  Copy - Cat Dealer   
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LEHQ0008-04  
 Supersedes LEHQ0008-03  
 January 1, 2021

## TERMS AND CONDITIONS

These Terms and Conditions are specifically for Caterpillar commercial engines and/or generator sets and are an important part of Provider's continuing effort to provide Customer with superior value and product support. These Terms and Conditions govern the terms of coverage outlined in the Registration Certificate and taken together constitute the Extended Service Coverage Contract (Contract).

### I. DECLARATIONS

This Contract defines coverage for the Cost, less any applicable Deductible, per visit, of a Mechanical Breakdown under normal use during the Coverage Period due to a defect in material, factory workmanship or Authorized Dealer workmanship of Covered Components.

This Contract is subject to the applicable exclusions listed under **Section VI. EXCLUSIONS AND LIMITATIONS**. The Registration Certificate must be completed in its entirety on the date of registration. Customer should purchase this Contract on the Covered Equipment's original purchase date from an Authorized Dealer. Certain fees, penalties and coverage availability limits may apply for Extended Service Coverage (ESC) Contracts requested after the original purchase date. Customer must contact an Authorized Dealer for complete details.

Coverage under this Contract starts at the earliest of:

- The date of overhaul for engines or generator sets not awaiting resale, or engines or generator sets not in inventory;
- The transfer date of coverage from an Authorized Dealer to Customer; or
- Within twelve (12) months from the original date of the overhaul for engines or generator sets awaiting resale or for engines or generator sets placed in inventory.

Under this Contract, coverage Upgrade or Coverage Continuation for overhaul (OVH) ESC starts at the date of registration of the changed coverage for claims reimbursement. Pre-existing claims, prior to the registration of the coverage Upgrade or Coverage Continuation, that would not have been paid under the original coverage, will not be paid. In the event a pre-existing claim is paid in error, Provider will recover the full amount paid and assess an Administrative Fee of ten percent (10%) of the amount paid in error.

### II. DEFINITIONS

**"Aftertreatment"** is a general term for a reduction device or system installed to reduce regulated engine exhaust emissions. The systems may or may not be mounted on the engine. Aftertreatment is comprised of the following:

- **"DPF"** means "Diesel Particulate Filter", which is an Aftertreatment component included in the Technical Marketing Information (TMI) as shipped consist or Order Invoice with Engineering Breakdown. The DPF and related systems are designed to reduce Particulate Matter (PM) emissions levels. DPF coverage must be ordered with engine coverage and can be ordered in combination with SCR coverage.
- **"SCR"** means "Selective Catalytic Reduction" system, which is an Aftertreatment component included in the Technical Marketing Information (TMI) as-shipped consist or Order Invoice with Engineering Breakdown. The SCR and related urea-based diesel exhaust fluid systems are used to reduce Oxides of Nitrogen (NOx) emissions levels in engines. SCR coverage must be ordered with engine coverage and can be ordered in combination with DPF coverage.
- **"DOC"** means "Diesel Oxidation Catalysts", which is an Aftertreatment component designed to convert carbon monoxide (CO) and hydrocarbons into carbon dioxide (CO<sub>2</sub>) and water. The DOC can be used as a standalone component or in conjunction with a SCR and/or DPF.

**"Authorized Dealer"** means a dealer authorized by the Manufacturer to sell, service and repair the Covered Equipment.

**"Authorized Dealer workmanship"** means labor performed for the installation or inspection of required and optional replacement of Covered Components during the overhaul.

**"Caterpillar"** means Caterpillar Inc. and any of its direct or indirect subsidiaries.

**"Cost(s)"** means the usual and customary charges as determined by the Manufacturer for parts and labor only necessary

to repair or replace the Covered Components as specified in **Section XIV. COVERED COMPONENTS**. Replacement parts will be genuine Caterpillar manufactured parts when performing repairs. Genuine Caterpillar parts include new, remanufactured or Caterpillar approved repaired components.

**"Coverage Period"** means the period that commences with the Coverage Start Date and expires when the duration or usage hours, as specified on the Registration Certificate, are reached, whichever occurs first.

**"Covered Component"** means the components listed and identified for the appropriate level of coverage in **Section XIII. COVERED COMPONENTS**.

**"Covered Equipment"** means the equipment identified by serial number for this Contract as recorded on the Registration Certificate and accepted by Provider.

**"Customer"** means Customer name on the Contract.

**"Deductible"** is the amount Customer agrees to pay per visit for a Mechanical Breakdown.

**"ESC"** means extended service coverage, which provides protection for Customer against unexpected repair Costs for Covered Components, as further described in this Contract.

**"Manufacturer"** means Caterpillar Inc. or any of its subsidiaries that manufacture Covered Equipment.

**"Mechanical Breakdown"** means the failure, due to a defect in material or workmanship, of any original or replacement Covered Component to work as it was designed to work in normal service, provided it has received customary maintenance as recommended in the Manufacturer's Operation and Maintenance Manual (OMM).

**"Pre-Existing Claim"** is a claim filed for a failure which occurred prior to the execution of this Contract and prior to registration of ESC for the Covered Equipment.

**"Provider"** means the entity issuing this Contract and further defined in **Section XV. PROVIDER**.

**"Repairer(s)"** means a business entity approved or authorized as a repair facility by Manufacturer or an Authorized Dealer.

**"Registration Certificate"** means page one (1) of this Contract, or as generated by the Contract administrator's quoting and registration platform.

**"Sanctions"** means economic or financial sanctions or trade embargoes imposed, administered or enforced from time to time by (a) the U.S. government, including those administered by the Office of Foreign Assets Control of the U.S. Department of Treasury or by the U.S. Department of State; or (b) the United Nations Security Council, the European Union (EU), or Her Majesty's Treasury of the United Kingdom.

**"Sanctioned Person"** means, at any time, (I) a person listed in any sanctions-related list of designated persons maintained by the U.S. Department of the Treasury, the U.S. Department of Commerce, the U.S. Department of State, or by the United Nations Security Council, the EU or any EU member state, or (II) any person owned or controlled by any such person.

**"Upgrade"** or **"Coverage Continuation"** is a change to one or more of the existing Contract terms that results in a higher price for the coverage.

**"Warranty"** means the Manufacturer's standard warranty or a Repairer's guarantee or warranty.

### III. PROVIDER RESPONSIBILITIES

- When a Mechanical Breakdown occurs, Provider will reimburse the Cost, less any applicable Deductible, to repair, replace or rebuild the Covered Component, and to the extent such Mechanical Breakdown causes damage to the Covered Equipment, Provider will reimburse the Cost, less the Deductible, to repair, replace or rebuild the Covered Equipment, this Cost not to exceed Caterpillar's list price for the equivalent Covered Equipment. This work will be reimbursed at normal working hour labor rates at a Repairer's place of business.
- Provider will provide, at Provider's choice, new, remanufactured or repaired components when replacing or repairing



any Covered Components. Further, Provider will also reimburse for any component with a Caterpillar part number that is rendered unserviceable by a Covered Component and/or Mechanical Breakdown and reasonable labor to complete the repair.

- Provider will restore the Covered Equipment to its operating condition immediately prior to the Mechanical Breakdown by repairing and/or replacing only the required Covered Components and any component with a Caterpillar part number that was rendered unserviceable as a consequence of the Mechanical Breakdown, which would be necessary to correct the defect in the Covered Equipment.
- Provider will reimburse the reasonable labor to disconnect and reconnect the Covered Equipment to its attached equipment, mounting, and support systems, if required. Other parts or components removed in the process of the repair will be reinstalled as is, unless Customer authorizes and pays the additional expense to repair or replace the other parts.
- Provider will also pay the reasonable Costs of any consumables made unusable as a result of a Mechanical Breakdown.
- Provider will reimburse applicable transportation and importation Costs at standard factory warranty approved levels.

#### IV. CUSTOMER RESPONSIBILITIES

- Customer shall operate, repair, and perform all recommended maintenance for the Covered Equipment according to the guidelines and recommendations as specified in the Manufacturer's OMM.
- Customer shall utilize an Authorized Dealer for all Scheduled Oil Sampling (S.O.S.) as specified in the Manufacturer's OMM, by submitting samples promptly with necessary sample information at the specified service intervals, and take the appropriate action as recommended by Authorized Dealer based on the S.O.S. results.
- Customer shall be responsible for labor and material costs for the removal and reinstallation of Covered Equipment, except as stated in **Section III. PROVIDER RESPONSIBILITIES**, or in **Section XIV. ADDITIONAL COVERAGE**, if applicable.
- Customer shall be responsible for all Costs not covered by this Contract.
- Customer shall be responsible for maintaining reasonable documentation of all scheduled maintenance and repairs of the Covered Equipment, such as receipts or copies of work orders or invoices from Repairers or Authorized Dealers showing the maintenance and services performed pursuant to the Manufacturer's OMM recommendations. In the event of a Mechanical Breakdown, Customer may be required to present documentation of scheduled maintenance and repairs.
- Customer shall only use the Covered Equipment for its intended application and shall follow guidelines of the Manufacturer's OMM.
- Customer shall ensure operators have training on proper operation of the Covered Equipment and follow guidelines of the Manufacturer's OMM.
- In the event of a failure of the Covered Equipment, Customer shall:
  - Take all reasonable steps to protect and safeguard the Covered Equipment.
  - Report the failure promptly to Provider or a Repairer.
  - Promptly make the Covered Equipment available to a Repairer for examination and repairs and provide proof of this Contract by presenting Customer's copy of the Registration Certificate.
  - Furnish Provider or a Repairer with such information as may be reasonably required to assess the failure.
  - Provide needed documentation or information upon request.
- Customer shall confirm that neither Customer, nor any of Customer's respective directors, officers or employees, or any guarantor of this Contract, or to Customer's knowledge, any agent or subsidiary of Customer's that will act in any capacity in connection with or benefit from this Contract and the services hereunder, is at any time identified as a Sanctioned Person.
- Customer assumes full responsibility for any damages and associated repair Costs attributable to any failure associated with operating a generator set in Emergency Override System (EOS) mode. Further, Customer will defend, indemnify and hold harmless Caterpillar and the Dealer and their respective parents, affiliates, subsidiaries, successors, directors, officers, employees, and agents from and against all third-party claims, actions, demands, damages and liabilities of any kind arising out of or related to operation of the generator set in ESO mode.

#### V. COVERAGE TERRITORY

This Contract applies to the Covered Equipment worldwide except when coverage provided by this Contract would be in violation of Sanctions. In such case, this Contract shall be null and void. Similarly, any coverage relating to or referred to in any certificates or other evidence of coverage or any claim that would be in violation of Sanctions shall be null and

void.

## VI. EXCLUSIONS AND LIMITATIONS

This Contract does not cover a Mechanical Breakdown failure caused by:

- Wear-out and normal deterioration in performance, including oil consumption and gasket or seal leaks;
- Wear-out or failure of components due to (i) operation beyond the design and/or capacity of the product, (ii) operator abuse, (iii) improper operation technique, or (iv) application not approved by Caterpillar;
- Corrosion and physical or mechanical erosion;
- Operating equipment with improper, contaminated, or improper levels of fuel, fluids, coolants, lubricants, or the use of improper filters;
- Repairer workmanship on subsequent repairs to the initial overhaul of the engine or generator set;
- Modifications, unless the modifications were authorized at the request of Manufacturer and performed at an approved repair facility;
- Abuse, neglect, or any failure to inspect, observe and comply with maintenance and servicing practices, specifications, intervals and requirements recommended or directed by the Manufacturer or us;
- Any failure to test oil samples according to an oil sampling program or analysis (including infrared analysis) as recommended or directed by the Manufacturer;
- Failure of a component which is not a Covered Component;
- Resultant damage caused by a component, which is not a Covered Component; this to include filter failures, clogging, or blockage;
- Use or establishment of fuel settings for Covered Equipment which are inconsistent with settings recommended by Provider or the Manufacturer;
- Operating the product at performance settings other than the standard Manufacturer specification.

This Contract also does not pay for the Costs arising from:

- Acts of God, acts of nature, acts of war, vermin, collision, fire, theft, vandalism, riot, or explosion;
- Performance-related complaints, including, but not limited to, adjustments to fuel settings or fuel injectors/nozzles;
- The supply or consumption of lube oils, grease, coolant or air conditioner refrigerant, unless otherwise provided in this Contract or agreed by Provider;
- Any Costs incurred to improve operation performance;
- Any Costs for load or performance testing, even when Caterpillar guidelines call for such testing following a covered repair;
- Work associated with performing a Product Improvement Program (PIP) or Product Support Program (PSP);
- Any loss of or damage to a Covered Component occurring or arising outside the coverage territory, as stated in **Section V. COVERAGE TERRITORY**;
- Routine maintenance items, normally scheduled preventive maintenance or maintenance services as explained in the Manufacturer's OMM, including but not limited to, valve lash adjustments or replacements of filters, fuel nozzles, fuel injectors, thermostats, seals, gaskets, hoses, vee-belts, batteries, and clutches;
- Storage of Covered Equipment;
- Miscellaneous shop supplies;
- Steel shims and cast-iron block inserts;
- Clamps and other fasteners not specified in **Section XIII. COVERED COMPONENTS**;
- Any Costs associated with Mechanical Breakdowns covered under any Warranty whether enforceable or not; including Emissions Warranty or Repairer's guarantee regardless of whether the Warranty or Repairer's guarantee is honored;
- Parts shipping charges and service charges unless provided by coverage type as described in **Section XIV. ADDITIONAL COVERAGE**;
- Any and all taxes;
- Any Costs associated with loss of time, inconvenience, downtime or downtime-related expenses or other incidental or consequential loss;
- Physical damage not related to Mechanical Failure;
- Any repairs if the service meter has been stopped or altered or misrepresents the Covered Equipment's actual usage;

- Reimbursement for meals or overnight lodging;
- Failures associated with enclosures, containers, undercarriage, ladders, lights, wheels, axles, brakes, tires, sound attenuation, sound reduction material, insulation, stabilizing jacks, fire suppression, and fire extinguishers;
- For Marine coverage only: Additional Marine Control displays, and associated controls and display wiring are excluded;
- Contingent damage to component(s) which were not part of the original factory consist;
- Failure of or damage to the generator set incurred as a result of operating the generator set in Emergency Shutdown Override (ESO);
- Additional Cat components installed by the Original Equipment Manufacturer (OEM), any Cat dealer, any authorized second level dealer or Customer after the in-service date of the engine or generator set, except where specified under **Section XV. Covered Components**; or
- OEM components made a part of the Caterpillar factory 'as-shipped' consist of the generator set through the Design to Order (DTO) process are not covered unless Caterpillar has given prior written approval to include the OEM components in the coverage.

Failure to provide reasonable documentation of required maintenance, as required in **Section IV. CUSTOMER RESPONSIBILITIES** may result in partial or non-payment of claim.

Coverage may be discontinued if an overhaul to the Covered Equipment becomes necessary as defined by key measures explained in the Manufacturer's OMM for the model and application, as indicated on the Registration Certificate. These key measures include, but are not limited to, valve recession, oil consumption, blow by, S.O.S. recommendations, total fuel consumed or service hours.

## VII. UPGRADE OR COVERAGE CONTINUATION

Subject to the limitations outlined in this Section, Customer may Upgrade or extend the following terms of coverage indicated on Customer's Registration Certificate:

- Coverage months (Duration),
- Coverage hours (Usage), or
- Deductible level.

Eligibility Guidelines for a coverage upgrade are as follows:

1. Upgrades in coverage level are not permitted.
2. An increase to the coverage months or hours (Coverage Continuation) or a decrease in Deductible amount is eligible any time during the active OVH ESC up to specified limits. Restrictions apply.

Changes to the existing Contract terms may require Provider approval, may result in additional testing requirements, and will result in an adjustment in price for the program coverage.

Provider reserves the right to deny an Upgrade request based on the claim's history of the Covered Equipment.

This Contract's terms cannot be reduced once enrolled.

## VIII. TRANSFER OR ASSIGNMENT OF ESC CONTRACT

The remaining coverage of this Contract may be transferred or assigned to subsequent owners other than an Authorized Dealer at Provider's sole discretion during the Coverage Period and at no extra charge provided the usage application is not different and the transfer or assignment would not violate Sanctions. The new owner of the Covered Equipment must present a copy of the current Registration Certificate to Provider within thirty (30) days of the transfer of the Covered Equipment's title and Provider must approve the transfer or assignment of the coverage.

## IX. TERMINATIONS AND REFUNDS

- Customer may cancel this Contract by providing written notice of intent to cancel and returning this Contract to the Contract administrator. Cancellation will be effective on the date the Contract administrator receives the written

cancellation notice.

- Refund and Administration Fee. If Provider receives Customer's written cancellation notice and returned this Contract within ten (10) days of the registration signature date as indicated on the bottom of the Registration Certificate, Provider will provide a refund in the amount of the Coverage Fees, less any claims paid and less a \$125.00 administration fee.
- If Provider receives Customer's written cancellation notice and returned this Contract more than ten (10) days after the registration signature date, as indicated on the bottom of the Registration Certificate, the pro-rated refund will be based on the lesser of months or hours of unused coverage less any claims paid and less a \$125.00 administration fee. If Provider receives Customer's written cancellation notice and returned this Contract more than thirty (30) days after the registration signature date, as indicated on the bottom of the Registration Certificate, Customer's refund will be reduced a further ten percent (10%).
- No refund is available if coverage is transferred or assigned to a subsequent owner.
- Provider may cancel this Contract without notice for the following reasons:
  - The Coverage Fee for this Contract has not been paid by Customer;
  - The standard factory warranty has been cancelled or voided;
  - Customer has substantially breached Customer's duties relating to the Covered Equipment or its use; or
  - Caterpillar or Provider determine that continuing this Contract would result in a violation of Sanctions.
- If there is a material misrepresentation in the Registration Certificate, Provider may void this Contract without written notice and Customer will not be charged the Coverage Fee.
- Provider may cancel this Contract without notice if the condition of an overhaul occurs. In the case of an overhaul occurring, Customer may receive residual Contract value as calculated above and applied to the continuation of coverage under the OVH ESC Contract for Caterpillar Commercial Engines. The new term of coverage under the OVH ESC program may be selected per available terms if OVH ESC eligibility requirements have been met.

In the event Provider cancels this Contract, Provider will return any pro-rated refund, if applicable, based on the lesser of months or hours of unused coverage, less any claims paid, and less a \$125.00 administration fee.

## X. DISCLAIMERS

- Provider responsibilities and Customer remedies under this Contract are limited to the provisions as specified herein.
- Provider disclaims any expressed or implied warranties in connection herewith including any warranty of merchantability or fitness for a particular purpose.
- Provider is not responsible for incidental or consequential damages, except as stated in **Section III. PROVIDER RESPONSIBILITIES**.
- Replacement parts furnished under the terms of this Contract are covered under the applicable replacement parts warranty.
- This Contract does not supersede the Emissions Warranty for emissions-related components.
- Misrepresentation of the Covered Equipment's eligibility for ESC or the actual accumulated miles, kilometers, hours, fuel burn or age shall result in cancellation of this Contract by Provider or non-payment of a claim, as determined by Provider.
- Provider shall be entitled to all other remedies.

## XI. CUSTOMER ASSISTANCE

For the U.S. and Canada, when a problem arises concerning the operation of Customer's Covered Equipment or concerning the service of Customer's Covered Equipment, the problem will normally be managed by the Authorized Dealer in Customer's area.

Customer satisfaction is a primary concern of Caterpillar and Provider's Authorized Dealers. If a problem has not been handled to Customer's complete satisfaction, follow these steps:

- 1) Discuss the problem with a manager from Provider's Authorized Dealer.
- 2) If the problem cannot be resolved at the Authorized Dealer level without additional assistance, contact a service representative with the Contract administrator (Service Representative) at 1-888-614-4328.

Outside the U.S. and Canada, if a problem arises concerning the operation of Customer's Covered Equipment or the service



of Customer's Covered Equipment, Customer should contact the nearest Authorized Dealer or Service Representative.

## **XII. PRIVACY NOTICE**

Provider or its Authorized Representative may collect Customer's name, address, phone number, payment information, product data (including geolocation and operational data) and email address ("Personal Data") from Customer to complete and process the Registration Certificate and to administer this Contract.

Provider may collect non-public Personal Data and other data necessary for Customer's Contract coverage from the following sources:

- 1) Information that Provider receives from Customer on registrations, applications or other forms, such as Customer's name, address, assets and income;
- 2) Information about Customer transactions with Provider, Provider's subsidiaries, Provider's affiliates (received only with Customer's express consent), Authorized Representative; and
- 3) Information from a Consumer reporting agency.

Provider processes Personal Data for the following purposes:

- 1) To execute and administer this Contract, including processing of claims;
- 2) To administer additional services requested in conjunction with this Contract;
- 3) To respond to Customer inquiries and provide customer support;
- 4) To enforce Provider's rights in the case of Customer default under this Contract or a breach by Customer of any of its responsibilities or obligations;
- 5) To comply with legal and regulatory obligations;
- 6) To conduct surveys, including through electronic means, to ascertain Customer satisfaction with Provider's coverage and services;
- 7) To contact Customer with details of Customer's existing or expiring coverage;
- 8) To contact Customer with details of products and services offered by Provider and other parties.

In addition to the purposes outlined above, data may be de-identified, in which case it is no longer Personal Data, and may be processed for other purposes.

In order to process Personal Data, Provider may rely on different legal basis, including:

- 1) The necessity for completion of pre-contractual measures, executing and administering a contract, and exercising Provider's rights thereunder;
- 2) The necessity for Provider to comply with legal obligations;
- 3) The necessity to pursue legitimate interests, including to improve the products and services we offer to Customer and to provide Customer with information about the products and services that Provider offers; and
- 4) Customer consent. If Provider relies on Customer consent as a legal basis for processing Customer data, Customer may withdraw consent at any time.

Provider will share Personal Data with third-parties, including the Contract administrator, located in the U.S.A., who acts as a data controller and may process Customer Personal Data for any of the above referenced purposes. Customer may obtain additional details on the specific measures the Contract administrator uses to ensure compliance with applicable data protection requirements, and to maintain the security and protection of Customer data, by accessing the Contract administrator's global privacy notice (<https://www.caterpillar.com/dataprivacy>).

The failure to provide Personal Data would in some cases have the consequence that this Contract is not concluded, including:

- 1) Where processing is necessary to the administration of this Contract or the conducting of pre-contractual measures; and
- 2) Where processing is necessary to fulfil Provider's legal and regulatory obligations or to exercise Provider's legal rights.

### XIII. COVERED COMPONENTS

**Engine Component Extended Service Coverage Matrix Explained:** Components covered by the Basic and Individual Component levels of ESC are listed in the table (matrix) at the end of this Contract. For Basic and Individual Component levels, if a component is not specifically listed in the matrix, it is not covered.

**Basic Coverage:** Please refer to the Overhaul ESC Engine or Generator Set Component Extended Service Coverage Matrix for a complete listing of Covered Components. Basic Coverage provides protection only on components listed within the Engine or Generator Set Component Extended Service Coverage Matrix. Covered components must be replaced at the time of overhaul. Caterpillar Reuse Guidelines are not allowed for Basic Coverage.

**Individual Component Coverage:** Component coverage is only available with the purchase of Basic Coverage. Individual Component Coverage is only available on parts that have been replaced. Caterpillar Reuse Guidelines are not allowed for Individual Component Coverage. Please refer to the coverage matrix at the end of this Contract for a complete listing of individual components available for coverage under OVH ESC.

**Platinum Level Covered Components:** All as-shipped consist from the factory with Caterpillar part numbers, including DOC (when DOC is not part of a DPF) are Covered Components with the exception of the following: DPF and SCR, filters, fluids, vee-belts, hoses, power take-offs, paint, batteries, and clutches. New replacement EMCP control panels with Cat part numbers installed on electric power generator sets by an authorized dealer are covered components.

**Platinum Plus Level Coverage Components:** All as-shipped consist from the factory with Caterpillar part numbers including DOC (when DOC is not part of a DPF) are Covered Components with the exception of the following: filters, fluids, vee-belts, hoses, power take-offs, paint, batteries and clutches. New replacement EMCP control panels with Cat part numbers installed on electric power generator sets by an authorized dealer are covered components.

It is the responsibility of the Authorized Dealer to provide the following documents to Caterpillar:

- 1) A copy of the ESC Registration form; and
- 2) A copy of the Work Order for the overhaul
- 3) The completed OVH ESC Checklist

These documents will become part of the permanent history of the Covered Equipment.

### XIV. ADDITIONAL COVERAGE

**Travel Time & Mileage Limitations, per claim where applicable by industry and coverage:**

Displacement	Silver, Gold & Platinum	Platinum Plus
4 liters or less	Up to 2 hours and 100 miles / 162 kilometers travel allowance	Up to 2 hours and 100 miles / 162 kilometers travel allowance
Greater than 4 liters and up to 7.5 liters	Up to 4 hours and 200 miles / 325 kilometers travel allowance	Up to 10 hours and 500 miles / 802 kilometers travel allowance
Greater than 7.5 liters	Up to 8 hours and 320 miles / 515 kilometers travel allowance	

#### **Emergency Freight:**

Emergency freight reimbursement up to \$500.00 is available with all coverage levels of ESC when a dealer is unable to obtain the Covered Component replacement part(s) required to complete a repair through the normal regional distribution channel.

The following items are included as additional coverage under Platinum Plus level ESC only, subject to the limitations outlined herein.

### **Remote Troubleshooting:**

Remote Troubleshooting Fees, up to a maximum of \$50.00 per claim, will be covered under Platinum Plus coverage only when a failed component is identified and repaired as part of the report.

### **Overtime Allowance:**

For Covered Equipment registered in Platinum Plus level coverage up to \$1,500.00 in overtime labor may be claimed for the incremental Cost of performing the repair outside of normal business hours, subject to the review and agreement by the Contract administrator, in its sole discretion, of the plausibility that the work could not be done within normal business hours. Incremental labor Cost hours must be in consecutive shifts to standard labor hours. This allowance modifies **Section III. PROVIDER RESPONSIBILITIES**, regarding repairs being done during normal business hours. This allowance is payable when it is not reasonably practical for the covered repair to be completed during normal business hours. Refer to industry addendum for incremental Costs reimbursement allowed.

## **XV. PROVIDER**

**In the United States and its territories of Guam, America Samoa, the Northern Mariana Islands and U.S.A. Minor Outlying Islands:** The Provider of this service contract is Caterpillar Inc.

**In Canada excluding Alberta:** The Provider of this service contract is the Cat dealer.

**In Alberta, Canada:** The Provider of this service contract is Caterpillar of Canada.

**In All Other Countries and the U.S.A. territories of Puerto Rico and the U.S. Virgin Islands:** The Provider of this service contract is the Cat dealer.

## **XVI. NOTICE FOR U.S. CONTRACTS ONLY**

Obligations of the Provider under this Contract are backed only by the full faith and credit of the Provider (issuer) and are not guaranteed under a service contract reimbursement insurance policy.

## **XVII. ENDORSEMENTS, APPLICABLE TO U.S.A. ISSUED CONTRACTS ONLY**

**In Georgia:** Paragraph **IX. Terminations and Refunds** the subparagraphs Refund and Administration Fee and Cancellation by Provider are replaced by the following:

- **Refund and Administration Fee.** If Customer cancels this Contract, the pro-rated refund will be based upon the lesser of months, miles or hours of unused coverage provided.
- **Cancellation by Provider.** Provider may only cancel this Contract for fraud, material misrepresentation or non-payment. If Provider cancels this Contract, Provider will give written notice of cancellation at least:
  - Ten (10) days before the effective date of cancellation if Provider cancel for non-payment of Coverage Fees or,
  - Thirty (30) days before the effective date of cancellation if Provider cancel for any other reason.

The pro-rated refund will be based upon the lesser of months, miles or hours of unused coverage provided.

**In Hawaii:** Paragraph **IX. Terminations and Refunds**, the subparagraph Cancellation by Provider is replaced by the following:

- **Cancellation by Provider.** Upon cancellation of a service contract by Provider, Provider, at least five (5) days prior to cancellation, shall mail to the contract holder at the contract holder's last known address, a written prior notice of cancellation that states the effective date of the cancellation; provided that prior notice under this subsection shall not be required if cancellation is for:
  - Non-payment of the Provider's fee for the service provided under the service contract;
  - A material misrepresentation by the contract holder to the Provider; or
  - A substantial breach of duties of the contract holder under the service contract, relating to a covered product or its use.

**In Hawaii and Wyoming:** Paragraph IX. **Terminations and Refunds**, the subparagraph Refund and Administration Fee is replaced by the following:

- **Refund and Administration Fee.** If no claims have been made under the Contract delivered at the time of sale and Customer cancels this Contract by returning it to Provider within twenty (20) days of purchase, Customer's refund shall be the Coverage Fees, or between twenty (20) and thirty (30) days of purchase, Customer's refund shall be the Coverage Fees less a \$25.00 administration fee. If Customer cancels this Contract by returning it to Provider after thirty (30) days from purchase, the pro-rated refund will be based on the lesser of months, miles or hours of unused coverage provided less any claims paid and a \$25.00 administration fee. No refund is available if coverage is transferred or assigned to a subsequent owner. A ten percent (10%) penalty shall be added to the refund if not paid within thirty (30) days from the time this Contract was returned to Provider.

**In Wisconsin:** paragraph IX. **Termination and Refunds** the subparagraphs Refund and Administration Fee and Cancellation by Provider are replaced by the following:

- **Refund and Administration Fee.** If Customer cancels this Contract by returning it to Provider within fifteen (15) days after Customer receives this Contract, Customer's refund shall be the Coverage Fees less a \$35.00 administration fee. If Customer cancels this Contract by returning it to Provider after fifteen (15) days from the date Customer receives the Contract, the pro-rated refund will be based on the lesser of months, miles or hours of unused coverage provided less a \$35.00 administration fee. If Provider cancels this Contract, Provider will provide Customer with written notice and Provider will not deduct any claims paid from Customer's refund. A ten percent (10%) penalty shall be added to the refund if not paid within thirty (30) days from the time this Contract was returned to Provider. All other terms and conditions apply.
- **Cancellation by Provider.** Provider may cancel this Contract with written notice to Customer and return to Customer the pro-rated refund based on the lesser of months, miles or hours of unused coverage provided and a \$25.00 administration fee for the following reasons: the Coverage Fee for this Contract has not been paid by Customer, the Manufacturer 's warranty has been canceled or voided, or a substantial breach of duties by Customer relating to the Covered Equipment or its use. If there is a material misrepresentation with intent to deceive by Customer in the Registration Certificate, Provider may void this Contract with written notice and Customer will not be charged the Coverage Fee.

*"THIS WARRANTY IS SUBJECT TO LIMITED REGULATION BY THE OFFICE OF THE COMMISSIONER OF INSURANCE."*



**Engine Basic Coverage  
Extended Service Coverage Matrix  
January 1, 2021**

<b>Engine - Overhaul ESC Basic and Basic with Optional Covered Components</b>					
<b>Covered Components</b>	<b>Top-End</b>	<b>Major</b>	<b>Covered Components</b>	<b>Top-End</b>	<b>Major</b>
<b>Cooling System</b>			<b>Short Block</b>		
Thermostat	X	X	Connecting Rod Bearings		X
Seawater Aftercooler Core - (Marine Only)	X	X	Crankshaft Seals		X
			Crankshaft Thrust Washers		X
Separate Circuit Temperature Regulator - (Gas Only)		X	Crankshaft Vibration Damper		X
			Gear Train Bearings		X
<b>Fuel System</b>			Gear Train Bushings		X
Fuel Nozzles (if equipped)	X	X	Main Bearings		X
Fuel Priming Pump (C175)	X	X	Piston Rings		X
Fuel Regulator (Gas only)		X	Wrist Pin Bearings		X
Fuel Transfer Pump	X	X	<b>Miscellaneous Items</b>		
Non-metallic Fuel Lines		X	Condensate Drain Valve - (Marine)	X	X
High Pressure Fuel Pump (3500, C175)	X	X	<b>Optional Individual Coverage Components - Available for purchase with Basic Coverage only.</b>		
Fuel Injectors	X	X	Cylinder Head(s)	Z	Z
<b>Air Induction System</b>			Turbocharger(s) - (complete)	Z	Z
Aftercooler Core - (Rail 3500)		X	Jacket Water Pump	Z	Z
Turbo Cartridge - (Rail 3500)	X		<b>"X" - Covered by Basic Top-End or Major Overhaul ESC as indicated. Replacement required when overhauled. "Z" - Covered by Basic Plus Optional Individual Covered Component Coverage. Replacement required and additional coverage charges apply.</b>		
<b>Lubrication System</b>					
Oil Temperature Regulators - (if equipped)		X			
<b>A number of non-covered components are required to be inspected. Failed inspected components must be either repaired or replaced although they are not covered by Basic coverage. Refer to the Overhaul ESC checklists for the full list of Required Inspection Components.</b>					

**Generator Set Basic Coverage  
Extended Service Coverage Matrix  
January 1, 2021**

Generator Set - Overhaul ESC Basic and Basic with Optional Covered Components					
Covered Components	Top-	Major	Covered Components	Top-	Major
<b>Cooling System</b>			<b>Miscellaneous Items</b>		
Thermostat	X	X	Condensate Drain Valve - (Marine)	X	X
Seawater Aftercooler Core - (Marine Only)	X	X			
<b>Fuel System</b>			<b>Lubrication System</b>		
Separate Circuit Temperature Regulator - (Gas Only)		X	Oil Temperature Regulators - (if equipped)		X
Jacket Water Heater Element and Thermostat		X	<b>Generator End Components</b>		
Radiator Core		X	Rotating Diodes and Varistor	X	X
<b>Fuel System</b>			Space Heaters	X	X
Fuel Nozzles (if equipped)	X	X	EMCP Panel Fuses		X
Fuel Priming Pump (C175)	X	X	Flexible Coupling		X
Fuel Regulator (Gas only)		X	Automatic Voltage Regulator (replace only upon testing failure or obsolescence)		X
Fuel Transfer Pump	X	X	Coupling Elements (replace rubber element)		X
Non-metallic Fuel Lines		X	Generator Bearings and Sleeves - Operating in all		X
High Pressure Fuel Pump (3500 & C175)	X	X	Generator Bearings and Sleeves - If operating in a harsh/humid environment	X	
Fuel Injectors	X	X	<b>Optional Individual Coverage Components - Available for purchase with Basic Coverage</b>		
<b>Short Block</b>			Cylinder Head(s)	Z	Z
Connecting Rod Bearings		X	Turbocharger(s) - (complete)	Z	Z
Crankshaft Seals		X	Jacket Water Pump	Z	Z
Crankshaft Thrust Washers		X	<b>"X" - Covered by Basic Top-End or Major Overhaul ESC as indicated. Replacement required when overhauled.</b>		
Crankshaft Vibration Damper		X			
Gear Train Bearings		X			
Gear Train Bushings		X			
Main Bearings		X			
Piston Rings		X			
Wrist Pin Bearings		X			
<b>A number of non-covered components are required to be inspected. Failed inspection components must be either repaired or replaced although they are not covered by Basic coverage. Refer to the Overhaul ESC checklists for the full list of Required Inspection Components.</b>					



# OVERHAUL EXTENDED SERVICE COVERAGE (ESC) CHECKLIST

## Overhaul ESC Worksheet for Engine Only

Effective January 1, 2022

### OVERHAULING DEALER INFORMATION

Authorized Dealer: \_\_\_\_\_ Dealer Code: \_\_\_\_\_ Country: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State/Province: \_\_\_\_\_ Postal Code: \_\_\_\_\_

### OVERHAUL ENGINE INFORMATION

Customer Name: \_\_\_\_\_ Engine Serial No. \_\_\_\_\_ Engine Model: \_\_\_\_\_

Original Delivery Date: \_\_\_\_\_ Overhaul ESC Start Date: \_\_\_\_\_

Start Hour Readings: SMU: \_\_\_\_\_ ECM: \_\_\_\_\_

#### ACTION BEING TAKEN AT THIS TIME (must choose one):

- Immediate active Overhaul ESC registration
- Unit into inventory ( see explanation below)      Date: \_\_\_\_\_
- Unit out of inventory (see explanation below)      Date: \_\_\_\_\_

#### APPLICATION (must choose one):

- Marine:       Petroleum:
- Industrial:       Rail:

### OVERHAULED ENGINES INTO AND OUT OF INVENTORY

In order for an overhauled engine to be put into inventory and be eligible for Overhaul ESC once it is put in use later, the following steps must be taken and be initialed by a representative of the authorized overhauling dealer:

- 1) Complete this entire form at the time of overhaul and register unit as Delayed Coverage Start.
- 2) Complete another copy of this form when the unit goes into service. Engine must be put into service within 12 months of overhaul or Overhaul ESC coverage begins.

#### Initials - When going into inventory/storage:

- 1) \_\_\_\_\_ - All Cat overhaul guidelines have been followed.
- 2) \_\_\_\_\_ - Engine hours are recorded on the Overhaul ESC registration form (above).
- 3) \_\_\_\_\_ - Engine is performance tested after overhaul and prior to being put into inventory.
- 4) \_\_\_\_\_ - Engine is stored according to 'Storage Procedure for Caterpillar Products' (refer to SEHS9031).

#### Initials - When taking unit out of inventory/storage:

- 1) \_\_\_\_\_ - Engine must be installed by Cat Dealer.
- 2) \_\_\_\_\_ - Engine must be pre-lubed before startup.
- 3) \_\_\_\_\_ - Labor charges for R & I engine at customer's expense.

### DEALERSHIP AND CUSTOMER ACKNOWLEDGEMENTS

**OVERHAULING DEALERSHIP ACKNOWLEDGEMENT:** I hereby certify the Overhaul procedure, as specified in this form, has been completed and the engine is eligible for the Overhaul ESC program. Only genuine Caterpillar new or remanufactured components were used during the repairs listed in the check list portion of this worksheet. A copy of the Dealer Work Order is attached and available upon request during the life of this contract. As an authorized Caterpillar dealer, I have read and understand my responsibilities with regard to the administration of Extended Service Coverage I also acknowledge the following:

- 1) All operating controls function per manufacturer's specifications.
- 2) All safety devices function per manufacturer's specifications.
- 3) Comments made on this form describe the condition of the equipment.
- 4) Provide at least four digital photographs representing the condition of the unit are uploaded to SIMSi.
- 5) The completed overhaul checklist must be uploaded to SIMSi prior to registration.
- 6) I certify that all manufacturer guidelines were followed during the completion of this overhaul.

Name of lead technician in charge of this \_\_\_\_\_  
*please print*

Dealership Service Manager Name: \_\_\_\_\_  
*please print*

Dealership Service Manager Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**CUSTOMER ACKNOWLEDGEMENT:** I acknowledge that the dealership has explained this Overhaul ESC checklist to me. All problems discovered during the process of this overhaul and covered by the Overhaul ESC program have been repaired or replaced. All other problems discovered have been explained to me. The dealer has given me a copy of this worksheet.

Customer Signature: \_\_\_\_\_ Date: \_\_\_\_\_

## ENGINE OVERHAUL ESC CHECKLIST

### TOP END OVERHAUL

#### REQUIRED REPLACEMENT

All components in the Required Replacement section must be replaced to be eligible for Basic Coverage. If a component was inspected and verified to have met Caterpillar guidelines for reuse, then it may be reused but the overhaul is only eligible for Platinum or Platinum Plus coverage. Optional individual component coverage's may be selected with the purchase of Basic Coverage, but the components must be replaced to be eligible.

**Replaced:** Component was replaced by a New or Reman during the overhaul.

**Reused:** Component was inspected and verified to have met Caterpillar guidelines for reuse. Reuse eligibility for Platinum and Platinum Plus coverage must follow the Caterpillar OMM guidelines.

**Repaired:** Component was repaired according to Caterpillar salvage guidelines.

**Exception:** The component is not within the consist of the product being overhauled.

Required Replacement Components	Replaced	Reused	Repaired	Exception	Comments/Action Taken
All Fluids and Filters	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Condensate Drain Valve - <b>MARINE APPLICATION ONLY</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fasteners/Gaskets/Seals Necessary to do Overhaul	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fuel Nozzles (if equipped, Diesel Only)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fuel Priming Pump (C175 if equipped)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fuel Transfer Pump	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
High Pressure Fuel Pump (3500 & C175)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Injectors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Seawater Aftercooler Core - <b>MARINE APPLICATION ONLY</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Turbocharger Cartridge - <b>RAIL 3500 ONLY</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Thermostat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
C175-16, Y3A Prefix Generator Coupling - <b>RAIL APPLICATION ONLY</b>	<input type="checkbox"/>				
<b>Optional Individual Component Coverage</b>	<b>Replaced</b>				
Turbocharger (complete)	<input type="checkbox"/>				
Cylinder Head	<input type="checkbox"/>				
Jacket Water Pump	<input type="checkbox"/>				



## ENGINE OVERHAUL ESC CHECKLIST

### TOP END OVERHAUL

#### REQUIRED INSPECTION

Any component not replaced must be within the specifications set forth in Caterpillar guidelines for reuse or salvage. Registration eligibility will be voided if any component, within this list or otherwise fails an inspection and is not repaired or replaced according to Caterpillar guidelines.

**Replaced:** Component was replaced by a New or Reman during the overhaul.

**Reused:** Component was inspected and verified to have met Caterpillar guidelines for reuse. Reuse eligibility for Platinum and Platinum Plus coverage must follow the Caterpillar OMM guidelines.

**Repaired:** Component was repaired according to Caterpillar salvage guidelines.

**Exception:** The component is not within the consist of the product being overhauled.

Required Inspection Components	Replaced	Reused	Repaired	Exception	Comments/Action Taken
Aftercooler - Jacket Water and Sea Water (Marine Application Only)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Camshaft	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Camshaft Followers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Connecting Rod Bearings (3500 series)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Connecting Rods (3500 series)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Counter Bore	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Crankshaft	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Cylinder Block / Deck	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Cylinder Heads & Assemblies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Cylinder Liners	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Engine Control Module	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Engine Wiring Harness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Exhaust Manifold	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Exhaust Manifold Bellows	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Exhaust Manifold Seals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Exhaust Manifold Studs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fuel Pressure Regulating Valve	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Inlet Manifold Gaskets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Inlet Manifold Housing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Inlet Manifold Seals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Low Pressure Fuel Pump (3500 & C175)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Oil Cooler	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Oil Pump	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Oil Suction Screen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Piston Pins	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Pistons	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Pre-Lube Pump	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Pushrods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Rocker Arms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Scavenge Oil Pump	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Spacer Plate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Turbocharger (complete)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Valve Cover / Base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Water Pumps (Jacket Water and SCAC, if equipped)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

## ENGINE OVERHAUL ESC CHECKLIST

### MAJOR OVERHAUL

#### REQUIRED REPLACEMENT

All components in the Required Replacement section must be replaced to be eligible for Basic Coverage. If a component was inspected and verified to have met Caterpillar guidelines for reuse, then it may be reused but the overhaul is only eligible for Platinum or Platinum Plus coverage. Optional individual component coverage's may be selected with the purchase of Basic Coverage, but the components must be replaced to be eligible.

**Replaced:** Component was replaced by a New or Reman during the overhaul.

**Reused:** Component was inspected and verified to have met Caterpillar guidelines for reuse. Reuse eligibility for Platinum and Platinum Plus coverage must follow the Caterpillar OMM guidelines.

**Repaired:** Component was repaired according to Caterpillar salvage guidelines.

**Exception:** The component is not within the consist of the product being overhauled.

Required Replacement Components	Replaced	Reused	Repaired	Exception	Comments/Action Taken
All Fluids and Filters	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Condensate Drain Valve - MARINE APPLICATION ONLY	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Connecting Rod Bearings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Crankshaft Seals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Crankshaft Thrust Washers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Crankshaft Vibration Damper	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fasteners/Gaskets/Seals Necessary to do Overhaul	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fuel Nozzles (if equipped)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fuel Priming Pump (C175 if equipped)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fuel Regulator (Gas Only)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fuel Transfer Pump	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Gear Train Bearings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Gear Train Bushings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
High Pressure Fuel Pump (3500 & C175)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Injectors	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Main Bearings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Non-Metallic Fuel Lines	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Oil Temperature Regulators (if equipped)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Piston Rings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Rod Bearings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Seawater Aftercooler Core - MARINE APPLICATION ONLY	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Aftercooler Core - RAIL 3500 ONLY	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Separate Circuit Temperature Regulator (Gas Only)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Thermostat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Thermostat	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
C175-16, Y3A Prefix Generator Coupling - RAIL APPLICATION ONLY	<input type="radio"/>				
<b>Optional Individual Component Coverage</b>	<b>Replaced</b>				
Turbocharger (complete)	<input type="checkbox"/>				
Cylinder Head	<input type="checkbox"/>				
Jacket Water Pump	<input type="checkbox"/>				

# ENGINE OVERHAUL ESC CHECKLIST

## MAJOR OVERHAUL

### REQUIRED INSPECTION

Any component not replaced must be within the specifications set forth in Caterpillar guidelines for reuse or salvage. Registration eligibility will be voided if any component, within this list or otherwise fails an inspection and is not repaired or replaced according to Caterpillar guidelines.

**Replaced:** Component was replaced by a New or Reman during the overhaul.

**Reused:** Component was inspected and verified to have met Caterpillar guidelines for reuse. Reuse eligibility for Platinum and Platinum Plus coverage must follow the Caterpillar OMM guidelines.

**Repaired:** Component was repaired according to Caterpillar salvage guidelines.

**Exception:** The component is not within the consist of the product being overhauled.

Required Inspection Components	Replaced	Reused	Repaired	Exception	Comments/Action Taken
Aftercooler - Jacket Water and <span style="color: red;">Sea Water (Marine Application Only)</span>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Camshaft	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Camshaft Bearings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Camshaft Follower/Lifter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Camshaft Lifter Bracket (N/A 3500)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Camshaft Thrust Washers	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Connecting Rods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Counter Bore	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Crankshaft	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Cylinder Block / Deck	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Cylinder Head Assembly	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Cylinder Liners	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Engine Control Module	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Engine Mounts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Engine Wiring Harness	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Exhaust Manifold	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Exhaust Manifold Bellows	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Exhaust Manifold Seals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Exhaust Manifold Studs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Flywheel	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Flywheel Housing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Front Covers and Plate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Front Gear Train	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fuel Pressure Regulating Valve	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

## ENGINE OVERHAUL ESC CHECKLIST

### MAJOR OVERHAUL

#### REQUIRED INSPECTION (CONT'D)

Any component not replaced must be within the specifications set forth in Caterpillar guidelines for reuse or salvage. Registration eligibility will be voided if any component, within this list or otherwise fails an inspection and is not repaired or replaced according to Caterpillar guidelines.

**Replaced:** Component was replaced by a New or Reman during the overhaul.

**Reused:** Component was inspected and verified to have met Caterpillar guidelines for reuse. Reuse eligibility for Platinum and Platinum Plus coverage must follow the Caterpillar OMM guidelines.

**Repaired:** Component was repaired according to Caterpillar salvage guidelines.

**Exception:** The component is not within the consist of the product being overhauled.

Required Inspection Components	Replaced	Reused	Repaired	Exception	Comments/Action Taken
Inlet Manifold Gaskets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Inlet Manifold Housing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Inlet Manifold Seals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Low Pressure Fuel Pump (3500 & C175)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Oil Cooler	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Oil Pan	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Oil Pump	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Oil Suction Screen	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Piston Pins	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Pistons	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Pre-lube Pump	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Pushrods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Rear Gear Train	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Rocker Arms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Scavenge Oil Pump	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Spacer Plate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Turbocharger (complete)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Valve Cover / Base	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Water Pumps (Jacket Water and SCAC if equipped)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	



# ENGINE OVERHAUL ESC CHECKLIST

## TOP END AND MAJOR OVERHAUL

### OPERATIONAL AND SAFETY REQUIREMENTS

In order to be eligible for coverage the overhauled product must pass all testing requirements listed below. In addition all necessary adjustments and service actions listed below must be completed. In the event manufacturer guidelines call for additional testing or adjustment activity not identified below, all must still be completed for eligibility.

Testing Required	Complete	Comments/Action Taken
Adjustment of High and Low Idle (Gas Only)	<input type="radio"/>	
Adjustment of Injection Timing & Rack (Diesel Only)	<input type="radio"/>	
Adjustment of Inlet and Exhaust Valve Lash (non-HLA)	<input type="radio"/>	
Check SIMS and Perform Any Applicable PIP/PSPs	<input type="radio"/>	
SOS Analysis and Required Actions Completed	<input type="radio"/>	
Check Instrument Panel Gauges	<input type="radio"/>	
Check Safety Shutoffs and/or Alarms	<input type="radio"/>	
Service Hour Meter	<input type="radio"/>	
Performance Check of the Engine	<input checked="" type="radio"/>	

### Testing Required - MARINE APPLICATION ONLY

### TESTING REQUIREMENTS: SEA TRIAL

**SEA TRIAL PROCEDURE** - Find a proper place to run the sea trial and bring the engines up to operating temperatures.

A. Run in smooth waters, if possible, for at least 15 minutes at a time in one direction. The longer you can run in one direction the better. If possible, run to a bridge or other large object if using a hand held GPS for boat speed. If windy, run with the wind and down wind for an average. If the engine is not up to operating temperature, run vessel at 60-75% of rated speed until water temperature stabilizes (using monitor ET).

**STEADY STATE SEA-TRIAL** - Stabilize engine at various RPM's and take data on Electronic Technician (ET) data logger.

A. Go to steady state sea trial data logger menu in ET. Complete general information portion of data logger to capture engine / vessel information. Start steady state data logger. Use the preset group for performance data. Take data starting at low idle and then go to 1000 rpm and take data every 200 rpm up to full throttle. Repeat the process if adverse conditions like wind, waves or currents force you to run in both directions and average the data. Remember to add manual data - exhaust temperature, exhaust back pressure and inlet air temperature at the air cleaner.

Exhaust Back Pressure - Back pressure must not exceed the limit listed in TMI during transient and steady state sea trial test and at rated rpm.

Back pressure must be equal to or less than the limit in TMI for engine to qualify for this coverage.

Air Inlet Temperature at air cleaner - The maximum allowable air inlet temperature at the air cleaner element is 120 Degrees F (49 degrees C) at full load / Wide Open Throttle and rated rpm.

B. Observe and record the following at each rpm step:

- |   |                           |                                     |      |
|---|---------------------------|-------------------------------------|------|
| 1. Steady state smoke level is acceptable     | <input type="radio"/> Yes | <input checked="" type="radio"/> No | Idle |
| 2. Smooth acceleration to the next higher rpm | <input type="radio"/> Yes | <input type="radio"/> No            | Idle |
| 3. Exhaust back pressure (inches H2O)         | <input type="radio"/> Yes | <input checked="" type="radio"/> No | Idle |
| 4. Air inlet temperature at air cleaner       | <input type="radio"/> Yes | <input type="radio"/> No            | Idle |
| 5. Boat speed ( <u>knots</u> or <u>mph</u> )  | <input type="radio"/> Yes | <input checked="" type="radio"/> No | Idle |

C. Engine rpm at WOT (Wide Open Throttle):

Speed:

**TRANSIENT SEA TRIAL** - Record acceleration data using the Electronic Technician (ET) data logger.

A. Start the transient logger in ET. Use the preset group for performance. Log file comments if known such as vessel weight and fuel and water load. Start the test with the engines at low idle and in forward gear. Go immediately to full throttle. Record runs at different FARC settings, trim tabs up and down and if wind, current or waves are present, run various directions and average the data.

- |  |                           |                          |
|--|---------------------------|--------------------------|
| 1. Is the acceleration smooth from idle to rated RPM?                    | <input type="radio"/> Yes | <input type="radio"/> No |
| 2. Smoke level - is the FARC setting OK for both smoke and acceleration? | <input type="radio"/> Yes | <input type="radio"/> No |
| 3. Did the engines reach full rated RPM?                                 | <input type="radio"/> Yes | <input type="radio"/> No |

Customer Signature Acknowledging Results: \_\_\_\_\_

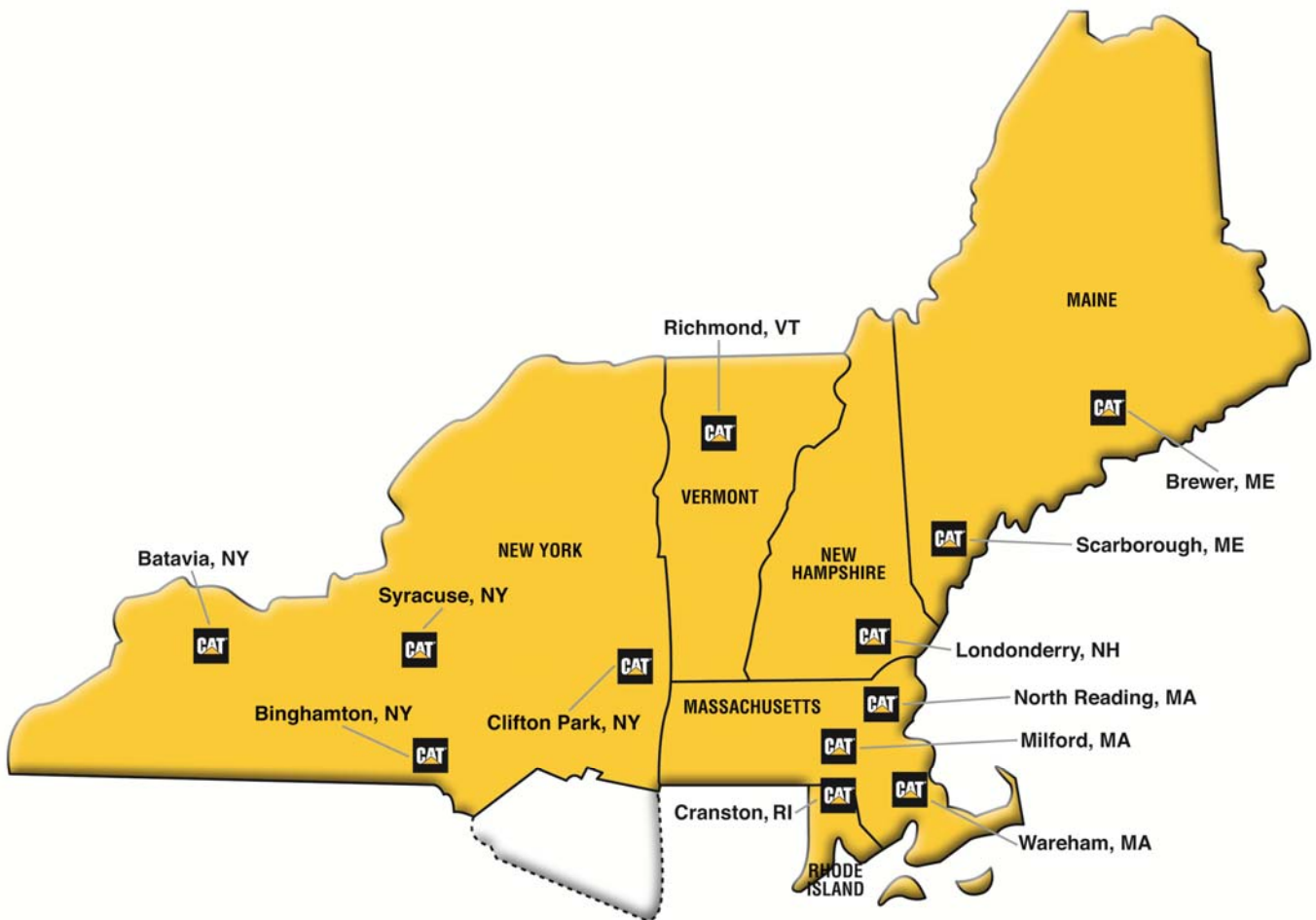
Engine Serial #: \_\_\_\_\_

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price tables for  
ESC pricing.

# Multiple Locations to Serve You Better



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