

Advantage ESC Certification Inspection Worksheet
For Used Cat® Engines for Industrial Applications
Effective Date: January 1, 2024

See page 4 for conditions under which an Advantage Inspection is NOT required.

INSPECTING DEALER INFORMATION

Inspecting Dealer: _____ Dealer Code: _____
Address: _____ City: _____
State/Province: _____ Postal Code: _____ Country: _____

INSPECTED ENGINE INFORMATION

CAT ENGINE SERIAL NUMBER: _____ *INSPECTION DATE: _____
ENGINE SALES MODEL: _____ APPLICATION (must choose one):
ORIGINAL DELIVERY DATE: _____ AGRICULTURE:
CURRENT ENGINE HOURS: SMU: _____ *ECM: _____ MATERIAL HANDLING:
ADVANTAGE START DATE**: _____ MINING:
ADVANTAGE START HOURS: SMU: _____ *ECM: _____ OTHER:
MACHINE/VEHICLE MANUFACTURER: _____ IF OTHER, PLEASE DESCRIBE:
MACHINE/VEHICLE MODEL: _____
MACHINE/VEHICLE MODEL YEAR: _____

*INSPECTION DATE is the date of the last day of inspection process

**Advantage start date is the INSPECTION DATE, except where delayed coverage start is selected.

DEALERSHIP AND CUSTOMER ACKNOWLEDGEMENTS

INSPECTING DEALERSHIP ACKNOWLEDGEMENT: I hereby certify that the appropriate certification procedure as specified in this form has been completed and the engine is eligible for the Advantage program. Only genuine Cat new or REMAN components were used during the repairs listed in the checklist portion of this worksheet. As an authorized Cat dealer, I have read and understand authorized Cat dealer's responsibilities with regard to the administration of Extended Service Coverage ("ESC") programs as found in the Global Dealer Administration Manual.

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 photos representing the condition of the unit are uploaded into SIMSi.
- 5) The completed inspection form and other test data required in the checklist must be uploaded into SIMSi prior to submitting the registration.

Name of lead technician in charge of this inspection: _____
Dealership Service Manager Name (clearly printed): _____
Dealership Service Manager Signature: _____ Date: _____

CUSTOMER ACKNOWLEDGEMENT: I acknowledge that the dealership has explained this Inspection Certificate to me. All problems discovered by this inspection have been repaired or replaced prior to the start of Advantage ESC and have been explained to me. The dealer has given me a copy of the Inspection Certificate Worksheet.

Customer Signature: _____ Date: _____

INSPECTION PROCESS, COMMENTS AND REPAIR CHECKLIST

Check
When
Passed

ITEM, COMPONENT OR PROCESS

EXPLAIN ACTION TAKEN / COMMENTS REQUIRED ON EVERY LINE!!

Visual/Walk Around & Records Review:

- Walk around unit and clean up as needed.
- Review records to ensure all required maintenance items are current for age and use.
- Ladders and fire equipment present? Quantity?
- Safety jacks present? Quantity?
- Operational inspection of frequency and voltage.
- Operational test of radiator louvers / vents - clear obstructions.
- Operation inspection of control panel meters.
- Document any excessive noise in engine.
- Review "as-shipped" consist and identify designed to order components. List them here.
- Check for obsolete components no longer serviced to be excluded from coverage, unless upgrades are completed.
- Check SIMS and perform any PIPs or PSPs not completed.
- Are Operation & Maintenance Manuals present?
- Are noise attenuation / insulation materials secure?
- Is container / enclosure intact?

Cooling System:

- Document overall condition of radiator/heat exchanger.
- Perform lab test of coolant & upload results in SIMSi.
- Check and document entire cooling system for leaks.
- Head gasket (must not leak to pass).
- Jacket Water Pump (must not leak to pass).
- Separate circuit after cooler pump (must not leak to pass).
- Thermostatic valve (must work & not leak to pass).
- Thermostat housing (must not leak to pass).
- Perform bottle test (list volume / minimum).

Fuel System:

- Ensure Gas Fuel Regulator / Throttle function properly.
- Check fuel tank level alarms and shutdowns.
- Check all fuel lines for cracks, leaks, liability, support.
- Fuel transfer pump (must not leak to pass).
- All fuel supply return lines (must not leak to pass).
- Hand priming pump (must not leak to pass).
- Filter base(s) (must not leak to pass).
- Document fuel pressure at idle and rated RPM: _____ Idle RPM Fuel PSI: _____ Rated RPM Fuel PSI: _____

Verify fuel settings as set from factory or as noted in SIMS: _____

Lubrication Systems: LEAKS IN THESE AREAS MUST BE FIXED TO PASS INSPECTION!!!

- Document oil PSI after doing PM1 service below. _____ Idle RPM Oil PSI: _____ Rated RPM Oil PSI: _____
- Head to block joint (& spacer plate if applicable).
- Front / rear crank seals.
- Front cover and flywheel housing.
- All major castings (head, block, oil pan, etc.)
- Oil Cooler
- Turbocharger
- Measure and record blowby and correct as needed if not in spec.
- Service & check crankcase breather with engine running.

Engine Serial #: _____

INSPECTION PROCESS, COMMENTS AND REPAIR CHECKLIST - continued

Check
When
Passed

ITEM, COMPONENT OR PROCESS

EXPLAIN ACTION TAKEN / COMMENTS REQUIRED ON EVERY LINE!!

Electronics & Starting Systems:

Use service tool to check FLS / FTS settings. FLS: _____ FTS: _____ Notes: _____

Perform cylinder cutout test with electronic service tool. _____

Record version of flash file and update as needed. _____

Perform cylinder cutout test with electronic service tool. _____

Check battery, terminals, connections & cable. _____

Check battery cells' specific gravity, adjust as needed. _____

Record alternator charge rate at idle and rated RPM. _____ @ idle _____ @ rated

Intake & Exhaust Systems:

Check/repair air intake pipes, air filter & restriction gauge. _____

Measure and record valve recession/ perform valve lash if due per O&M. _____

Check and repair exhaust cracks, leaks or smoke w/engine running. _____

Check exhaust manifold for oil or fuel slobbering. _____

Check/repair exhaust manifold if any broken hardware. _____

Inspect turbo for excessive end play clearance. _____

Inspect turbo for any air leaks at seal. _____

Ensure waste gate functions properly. _____

Customer Signature Acknowledging Results: _____

Engine Serial #: _____

INSPECTION PROCESS, COMMENTS AND REPAIR CHECKLIST - continued

Advantage inspection is NOT required if the covered product meets the following conditions at the time of registration or coverage upgrade/continuation:

- Currently enrolled in a New ESC
- Coverage level remains the same when moving from New ESC to ADV ESC

If Advantage Inspection is not required, please complete pages 1 and 4 and attach to Quote Plus as the Inspection Document.

Engine Serial #: _____