Tigercat® | TCi®

ENGLISH

LOGON
USER'S MANUAL



72134AENGC
May 2026
Issue 1.2

Original Instructions.

The information contained in this manual is current at time of printing. Improvements to this product are ongoing and may not be covered; in these cases, contact your Tigercat-TCi Dealer for the appropriate information.

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INTRODUCTION

AVAILABLE LITERATURE

Document ID: 176355 | Last Modified Date: Feb 13, 2026

RemoteLog User's Manual	Part No. 47385AENGC
LogOn User's Manual	Part No. 72134AENGC
LogOn Technician's Manual	Part No. 66331AENGC
Telematics Field Installation Handbook	Part No. 53902AMUL

PROGRAM INFORMATION

Document ID: 176356 | Last Modified Date: Feb 2, 2026

All program related information including the version number listed in this manual is current at the time of printing.

LogOn	Version No. 4.0

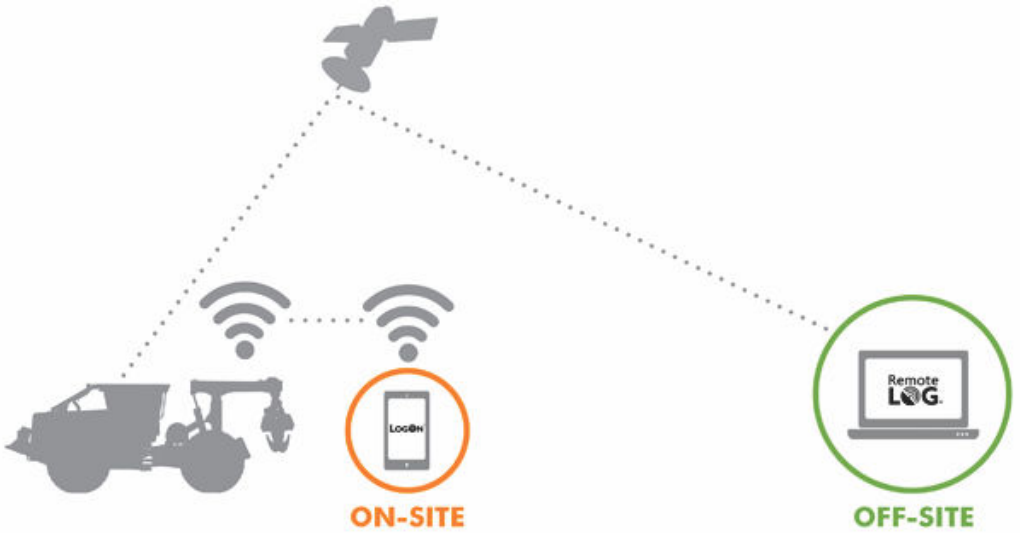
INTRODUCTION

Document ID: 176357 | Last Modified Date: Feb 17, 2026

This manual is intended to assist the dealer, customer, and operator in becoming familiar with the features of the RemoteLog and LogOn telematics systems.

Tigercat-TCi telematics provides real-time data and machine diagnostics for fleet management and machine monitoring. Reduce downtime and troubleshoot issues faster and smarter.

The Tigercat-TCi telematics solution includes two components.



LogOn™

Access detailed machine data and diagnostic tools with your phone ON-SITE using LogOn. LogOn™ allows users to connect directly to a machine's telematics system via a local WiFi signal to access a similar dataset of performance and diagnostic information.

- Access onsite within 15m (49 ft) of the machine using a WiFi capable device
- Launch LogOn easily through the Tigercat mobile app
- LogOn comes standard on all Tigercat-TCi models

Remote LOG™

Remotely monitor and manage your fleet of machines OFF-SITE using RemoteLog. RemoteLog® allows users to perform fleet management functions remotely. Performance, diagnostic, and location data are transmitted to the RemoteLog online platform via satellite.

- Access remotely while on the road or at the office
- Launch the RemoteLog web interface through your computer or mobile device
- Free subscription to start

NOTE

Not all machines are equipped with RemoteLog.

ABOUT LOGON

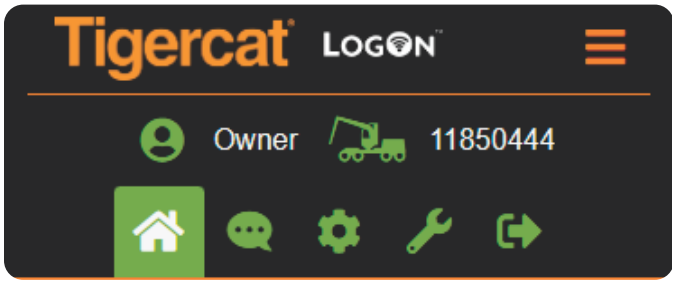
Document ID: 176358 | Last Modified Date: Feb 17, 2026

LogOn provides easy on-site access to view production, activity timeline, and fuel consumption by using a personal mobile device connected to the cellular network by either operator, contractor, or owner through a secure Wi-Fi hot spot. Transfer data from a LogOn-equipped machine and save the information to the mobile device for easy viewing later.

Visit the **Tigercat Industries YouTube channel** for LogOn tutorials and training videos.

> **NOTE**
> All images in this manual show the mobile version of LogOn. The information may be displayed differently on desktop devices.

LogOn has four main pages:



Home–Select the **Home** button or the Tigercat-TCi logo in the header to open the **Dashboard [8]**, which shows machine activity and information, diagnostic messages, and available documentation.

Text Messages–Select the **Text Messages** button in the header to open the **Text Messages [16]** screen.

Settings–Select the **Settings** button in the header to open the **Settings [18]** screen, which manages account settings, machine settings, remote access, and more.

Diagnostics–Select the **Diagnostics** button in the header to open the **Engine Diagnostics [31]** or **J1939 Diagnostics [54]** tools and perform any of the available diagnostic tests, such as a UDST, Compression Test, or CAN Analyzer.

DOCUMENTATION OF EXTERNAL SENSING CAPABILITIES

Document ID: 176359 | Last Modified Date: Feb 2, 2026

The telematics module is capable of recording and sending the following geographical data.

GEOGRAPHICAL POSITION

- Geographic position data is recorded according to the **Position Measurement Interval [28]** setting. Samples are discarded if the machine has not moved since the previous sample.
- Geographic position data is recorded as latitude, longitude, and elevation.

MACHINE INCLINATION (SLOPE ANGLE)

- Machine inclination data is recorded every 60 seconds.
- Machine inclination data is recorded as decimated, average, and maximum values.

ACCESSING LOGON

CONNECTING TO THE LOGON WIRELESS NETWORK

Document ID: 182620 | Last Modified Date: Feb 17, 2026

Each machine equipped with a LogOn telematics module broadcasts a local LogOn wireless network. The machine must be powered on (ignition key in the RUN position) to provide the LogOn wireless network.

Each machine's wireless network is named **LogOn-Serial Number** for easy identification.

The machine's wireless network only broadcasts within a 15 m (50 ft) radius of the machine. If the network does not appear available on your device, try moving closer to the machine.

If the machine's wireless network starts with 'RemoteLog' instead of 'LogOn,' the machine may not be equipped with the LogOn telematics system.

The telematics module can also be equipped with a SIM card and a mobile plan to provide internet access through the LogOn wireless network. Refer to Connection Settings [23] for more information.

ACCESSING LOGON FROM A BROWSER

1. Turn ON the battery disconnect switch.
2. Turn the ignition key on the machine to the RUN position.
3. Open your device's network settings.
4. Connect to the machine's wireless network, named **LogOn-Serial Number**.
5. Open your preferred browser.
6. In the URL field, enter the IP address **http://192.168.2.1**.
7. Enter the appropriate login credentials.

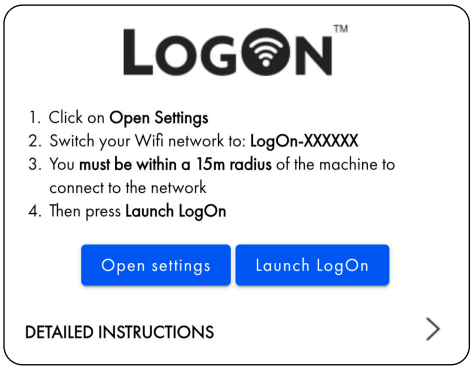
   Passwords are case-sensitive.

ACCESSING LOGON FROM THE TIGERCAT-TCI MOBILE APP

1. Turn ON the battery disconnect switch.
2. Turn the ignition key on the machine to the RUN position.
3. Open the Tigercat-TCi mobile app.
4. Select the **LogOn** button from the home screen.



5. Select **Open settings**.



6. Connect to the machine's wireless network, named **LogOn-Serial Number**.
7. Select the **Back** button on your device.
8. Select **Launch LogOn**.
9. Enter the appropriate login credentials.

   Passwords are case-sensitive.

LOGGING IN

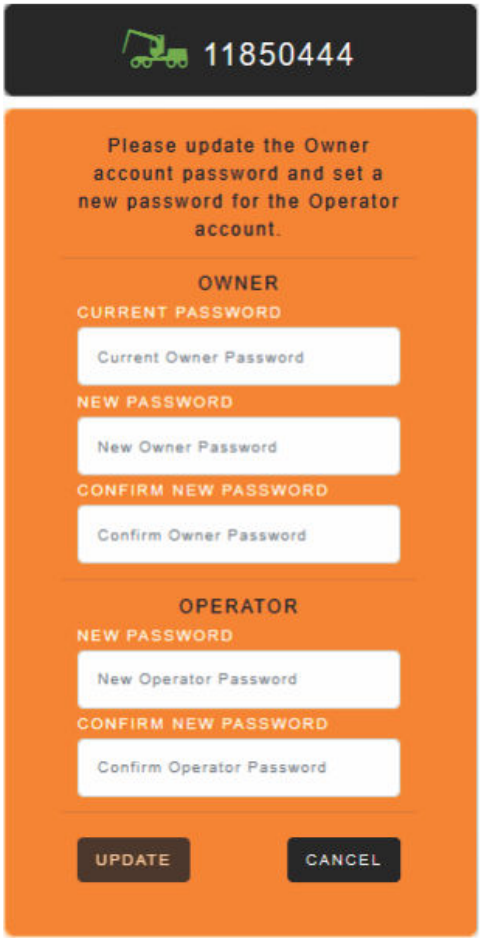
Document ID: 182621 | Last Modified Date: Mar 12, 2026

1. Connect to the machine's wireless network, named **LogOn-Serial Number**.
2. On the log in screen, enter your LogOn credentials.

   If it's the Owner's first time logging in to the machine, use the default credentials:

Username	Password
Owner	Owner7Q

3. If it's the Owner's first time logging in to the machine, the Owner will be prompted to change the Owner and Operator passwords before continuing.



LOGGING OUT

Document ID: 182622 | Last Modified Date: Feb 17, 2026

Log Out–Select the **Log Out** button in the header to bring up the Logout screen, then select the **Log Out** button again to log out.

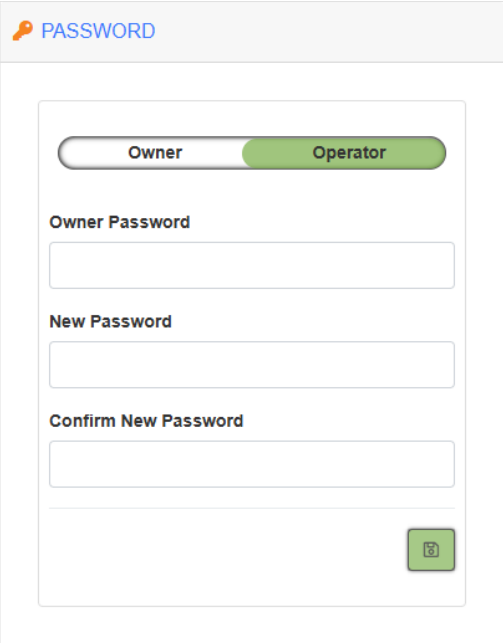
ACCOUNT RECOVERY

Document ID: 182623 | Last Modified Date: Mar 12, 2026

RECOVERING THE OPERATOR ACCOUNT

If the Operator forgets their password, the Owner can set a new password through the Settings menu:

1. Log in to the Owner account.
2. Navigate to **Settings**–**User**–**Password**.

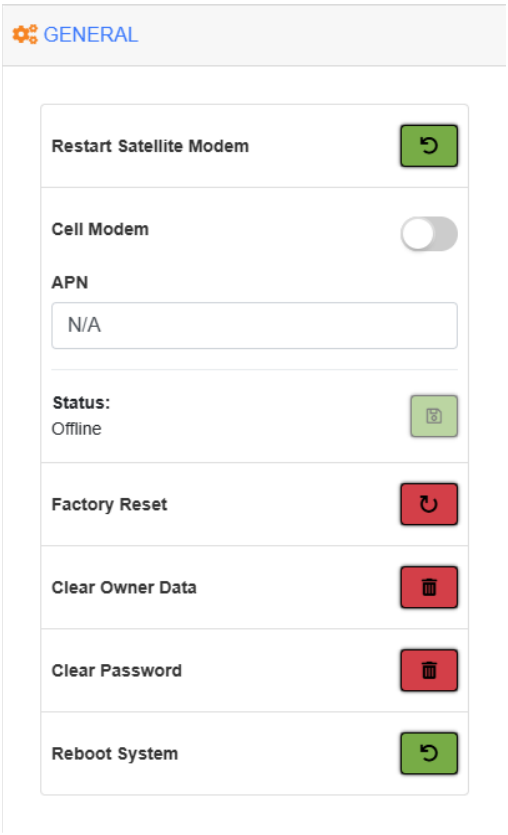


3. Enter the current Owner password.
4. Enter the new Operator password.
5. Select the **Save** button.

RECOVERING THE OWNER ACCOUNT

If the Owner forgets their password, the account must be recovered by a Technician or Engineering user:

1. Log in to the Tech account.
2. Navigate to **Settings**–**System**–**General**.



3. Select the **Delete** button next to **Clear Password**.

   A confirmation screen will appear, warning that the following data will be removed:

   - Owner and Operator passwords
   - Contents of data uploaded to the system
   - Contents of exports downloaded from the system

4. Select the **Delete** button to confirm.
5. Log in to the Owner account using the default LogOn credentials.
6. When prompted, set a new Owner password and a new Operator password.

ACCOUNT PERMISSIONS

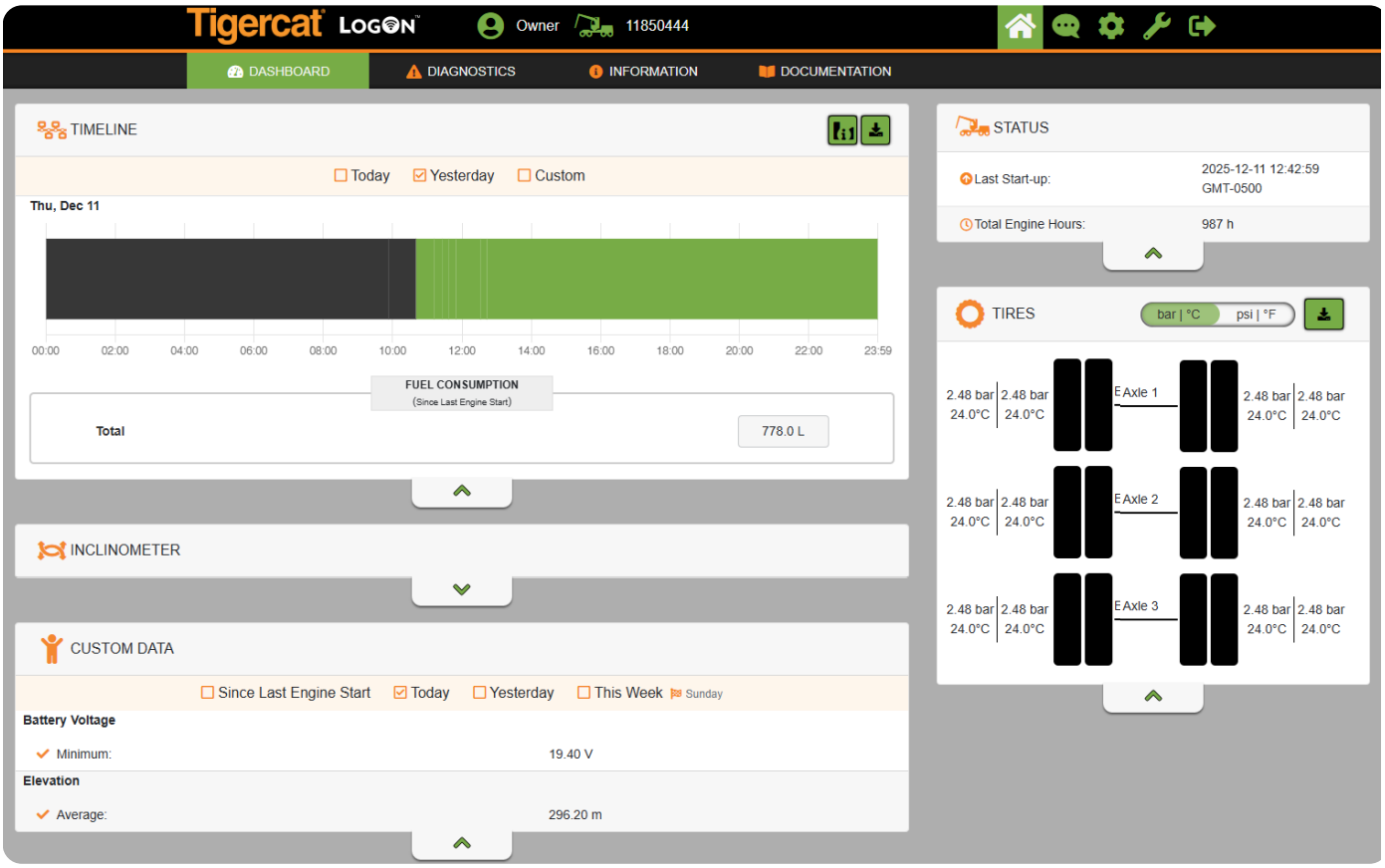
Document ID: 182624 | Last Modified Date: Mar 10, 2026

The information that is available to view on LogOn depends on the account type.

View Permissions	Owner	Operator	Tech	Guest
Dashboard–Activity Timeline	✓	✓	-	-
Dashboard–Inclinometer	✓	✓	✓	✓
Dashboard–Custom Data	✓	✓	✓	-
Dashboard–Machine Status	✓	✓	✓	✓
Dashboard–Tires	✓	✓	✓	✓
Dashboard–Diagnostics	✓	✓	✓	-
Dashboard–Service History	✓	✓	✓	-
Dashboard–Geographic Information	✓	✓	✓	✓
Dashboard–System Information	✓	✓	✓	✓
Dashboard–Machine Information	✓	✓	✓	✓
Dashboard–Documentation	✓	✓	✓	✓
Text Messages	✓	✓	✓	-
Settings–Password	✓	-	-	-
Settings–Preferences	✓	✓	✓	✓
Settings–Dashboard	✓	✓	✓	-
Settings–Firmware Update	✓	✓	✓	-
Settings–Snapshot Capture	✓	✓	✓	✓
Settings–Reboot System	✓	✓	✓	✓
Settings–Factory Reset	✓	-	✓	-
Settings–Service Mode	✓	✓	✓	✓
Settings–Configuration	✓	-	✓	-
Settings–Geographic Reporting	✓	-	✓	-
Settings–Data	✓	-	-	-
Engine Diagnostics	✓	✓	✓	-
J1939 Diagnostics	✓	✓	✓	-

DASHBOARD

Document ID: 176362 | Last Modified Date: Feb 17, 2026



Activity Dashboard [9]–This tab displays the machine's activity timeline, production information, tire pressures (if applicable), and custom data.

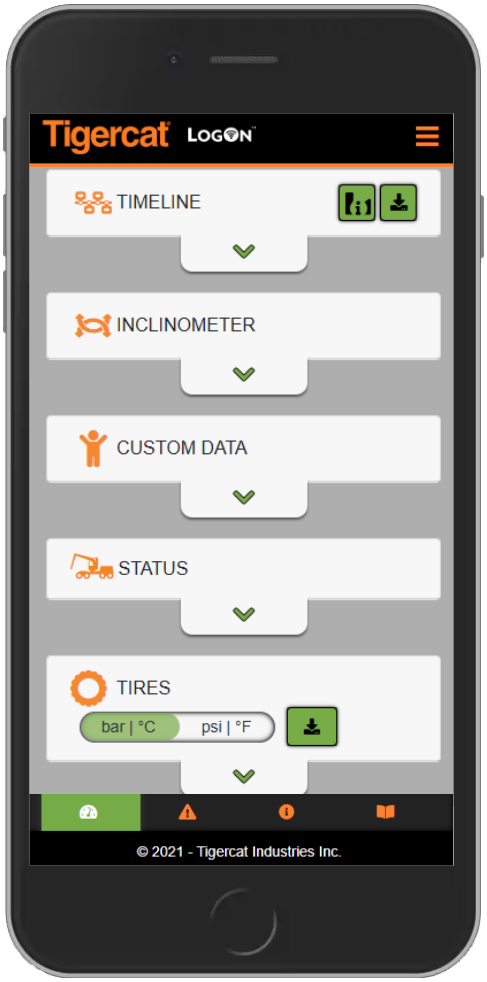
Diagnostics Dashboard [12]–This tab displays all active diagnostic messages for the machine and the history of service performed through LogOn.

Information Dashboard [14]–This tab displays geographic, machine, attachment, and system information.

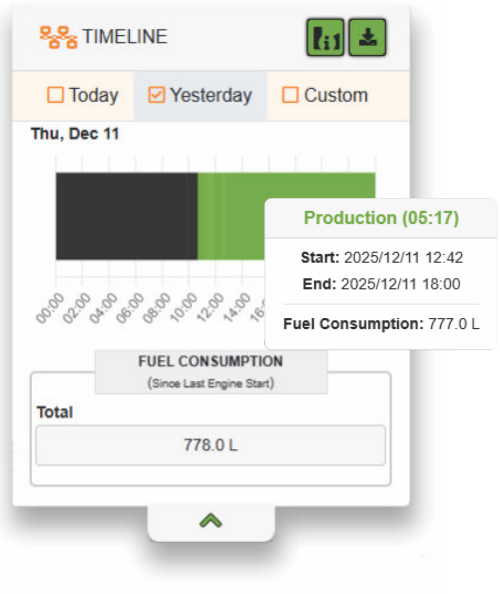
Documentation Dashboard [15]–This tab provides access to all available documentation for the machine.

ACTIVITY DASHBOARD

Document ID: 176363 | Last Modified Date: Feb 17, 2026



TIMELINE



Timeline–The timeline card displays all machine activity for the selected date range, by date. Each event on the timeline displays its duration and is colour-coded to indicate the activity type. Select the event to bring up additional information, including start and end times and fuel consumption information.

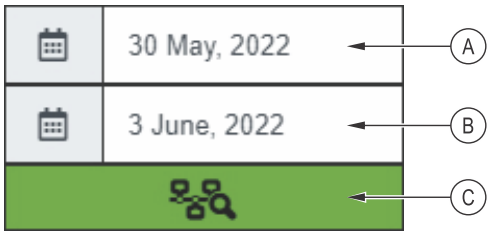
Select the **Download** button to download the timeline visualization as a PDF.

The timeline also displays fuel consumption information. When the engine is running, the timeline shows fuel consumption since the last engine start-up. When the engine is stopped, the timeline shows the total fuel consumption for the last engine start-shutdown cycle.

The hours displayed on the timeline can be customized. Refer to Dashboard [19] for more information.

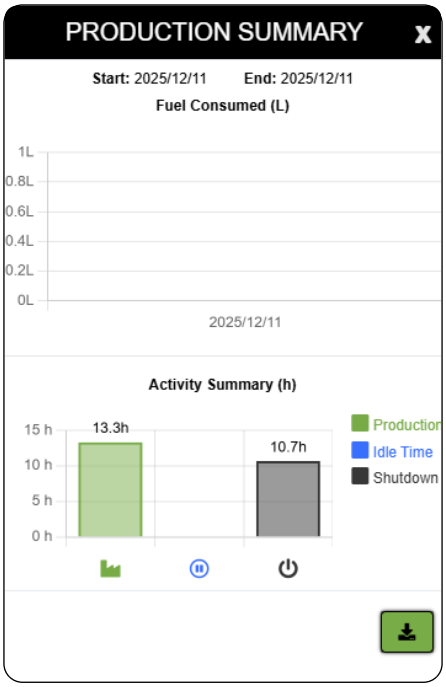
Date Range–Select a **Date Filter** button to change what data is shown on the timeline.

To set a custom date range, select the **Custom** button, select start and end dates, and then select the **Timeline** button to apply the changes.



A Start Date
B End Date
C Apply

Production Summary–Select the **Production Summary** button to view the activity summary and fuel consumption information in graph form. Select the **Download** button to download the production summary visualization as a PDF.



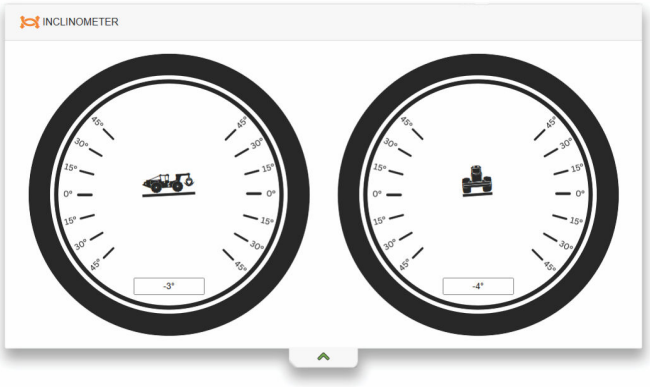
Activity Types

Production (Green)–While the engine is running, production is the default activity type unless the machine program signals otherwise.

Idle Time (Blue)–While the engine is running, idle time is determined by the machine program.

Shutdown (Black)–The engine is stopped.

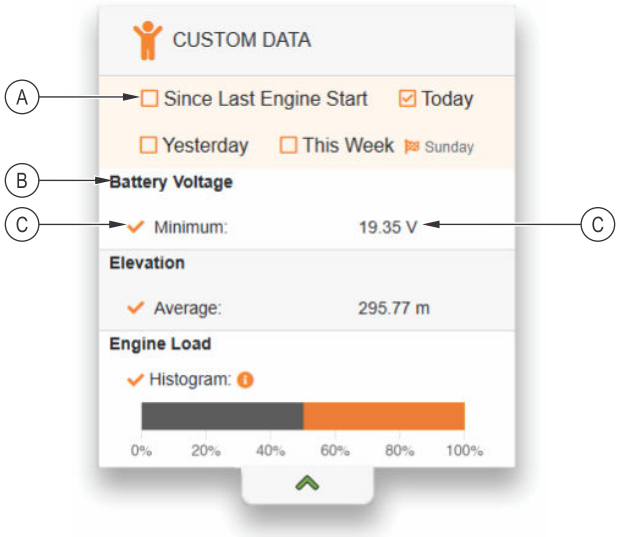
INCLINOMETER



This panel displays the current machine pitch and roll (slope) angles.

- **Pitch**–Indicates the front-to-back motion of the machine.
- **Roll**–Indicates the side-to-side motion of the machine.

CUSTOM DATA

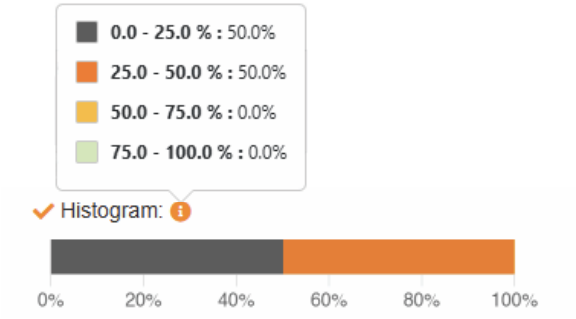


A Date Range
B Parameter
C Data Type (Metric)
D Value

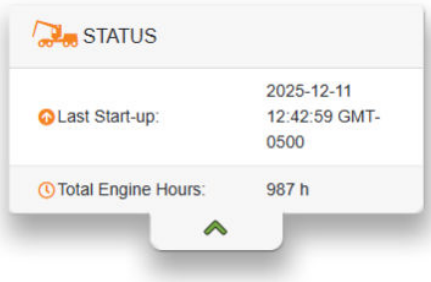
The **Custom Data** card displays all custom data items set up by the user. Custom data includes parameters such as engine speed, coolant temperature, fuel level, and battery voltage. Several metrics are available, including average, minimum, and maximum values over the selected date range. Refer to **Dashboard [19]** for more information.

Histogram Information–Select the **Information** button to display the histogram legend. The legend shows the defined data categories and what percentage of the data falls into each category.

In this example, engine load data is organized into 0–25% load, 25–50% load, 50–75% load, and 75–100% load categories. 50% of the shown data falls into the 25–50% load category, and the other 50% of data falls into the 0–25% load category.

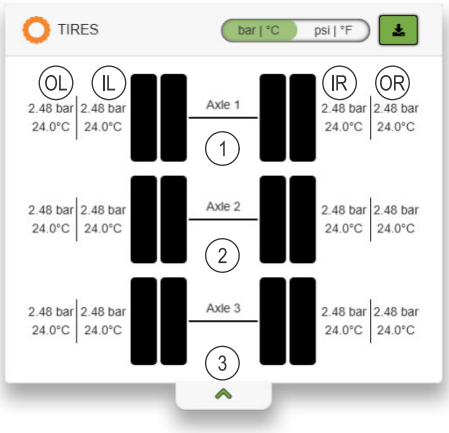


MACHINE STATUS



The **Status** card displays the machine's last start-up time and total engine hours.

TIRES



AXLE	PRESSURE	TEMPERATURE
1OL	2.48 bar	24.0 °C
1IL	2.48 bar	24.0 °C
1IR	2.48 bar	24.0 °C
1OR	2.48 bar	24.0 °C

#	Axle Number
OL	Outer Left Tire
IL	Inner Left Tire
IR	Inner Right Tire
OR	Outer Right Tire

The **Tires** card displays the current tire pressures and temperatures for the machine. For devices with sufficient screen size, the tire pressures are shown visually by axle. On smaller screens, the pressures display in a table.

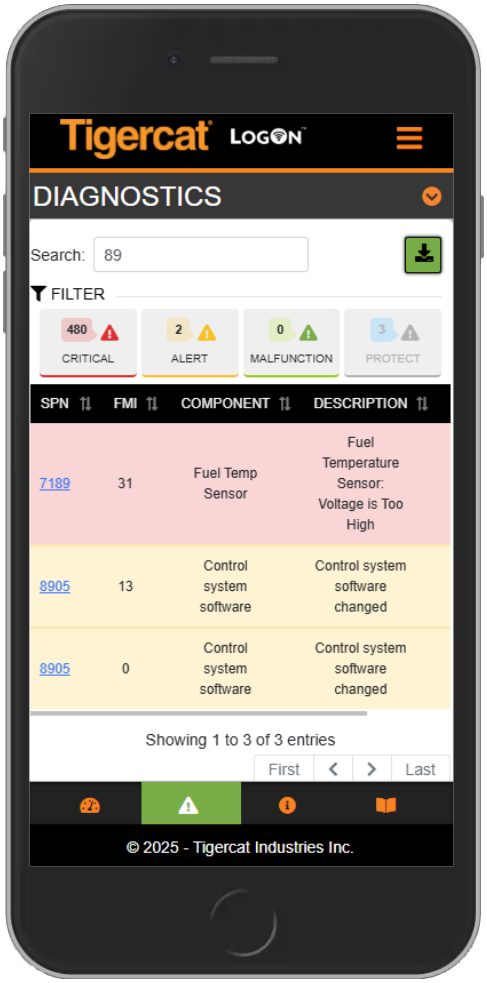
Unit Selection–Select the units toggle to display the tire pressure and temperature information in either bar/°C or psi/°F. The current units system is displayed in green.

Download Tire Data–Select the **Download** button to download the tire data. The download includes up to 2 years of data. Each file contains up to 6 months of data. The downloaded files include a log of tire pressures and temperatures for each tire equipped on the machine, as well as time stamps indicating when the data was recorded.

DIAGNOSTICS DASHBOARD

Document ID: 176364 | Last Modified Date: Feb 17, 2026

DIAGNOSTIC MESSAGES



Search–Enter a search term to filter the displayed diagnostic messages. This search applies to the SPN, Component, and Description, and Date fields.

Severity Filter–Select any code severity to filter out those codes from the list. Select the severity again to show those codes in the list.

SPN 8920 **SPN Code**–Select the SPN code to open the fault dialogue and troubleshooting information.

Download Diagnostic Messages Summary–Select this button to open a pop-up window. Enter the desired start and end dates and then select a file type (CSV or XLSX) to download the report.

The downloaded file includes a list of all diagnostic messages generated during the selected date range, including the dates and number of occurrences and descriptive information such as the source, severity, and related component.

The downloaded file includes all codes from the selected date range, regardless of the active filters.

Diagnostic Code Severity

Document ID: 158047 | Last Modified Date: Feb 17, 2026

Critical (Red) indicates a problem that is severe enough that the operator should stop the machine immediately. Critical messages are sent through satellite transmission immediately when the code occurs.

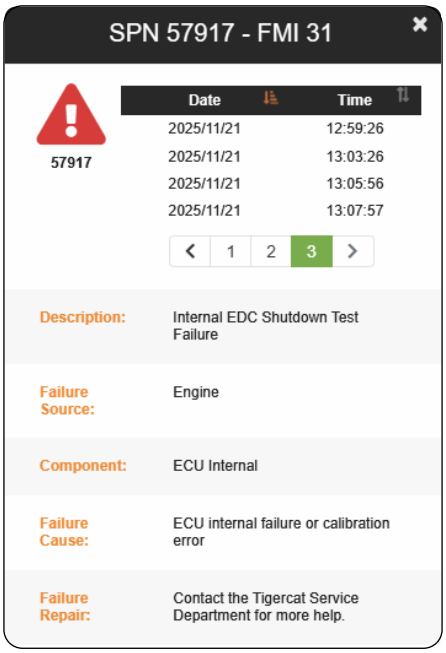
Alert (Amber) indicates a problem with the machine, but the operator does not need to stop the machine immediately. Alert messages are sent through satellite transmission as part of the end-of-day report.

Malfunction (Green) indicates that a subsystem is malfunctioning.

Protect (Blue) indicates that there is a preventative damage warning. If left unattended for a long time, it may cause serious damage to the machine.

Diagnostic Message Fault Dialogue

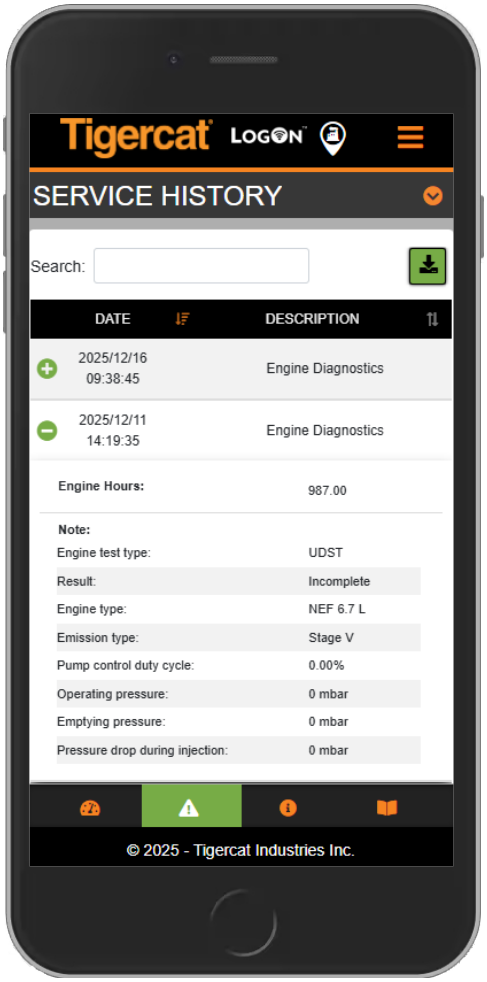
> **NOTE**
> At the time of printing, engine troubleshooting documents in LogOn only apply to N67 Tier 4f engines. The troubleshooting information may not be accurate for other engine types.



Select the SPN code on any diagnostic message to open the Fault Dialogue pop-up window. The Fault Dialogue displays additional information about the diagnostic message, including the source of the fault and instructions for repairing the fault. If the fault occurred multiple times within the displayed time period, all occurrences are listed.

If Troubleshooting is available, select the Troubleshooting button to view more detailed repair information.

SERVICE HISTORY



Search–Enter a search term to filter the displayed service reports. This search applies to the Date and Description fields.

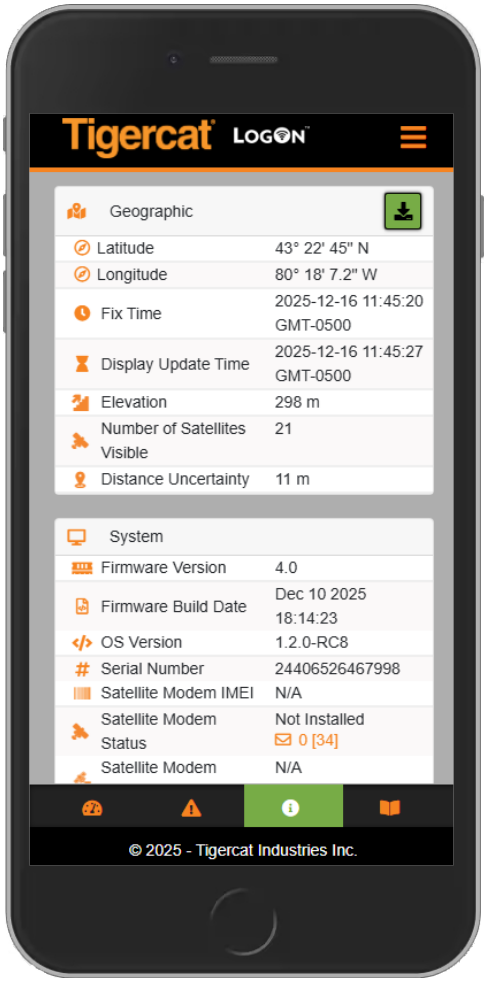
Expand–Select the **Expand** button next to any report to view more details about the service, such as the test type and results.

Download Service History Summary–Select this button to open a pop-up window. Enter the desired start and end dates and then select a file type (PDF, CSV, or XML) to download the report.

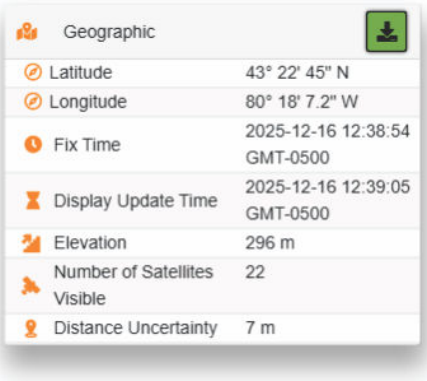
The downloaded file includes the machine serial number, the selected date range, and all service reports from the selected date range. Each report includes the date of service, engine hours at time of service, description, and notes.

INFORMATION DASHBOARD

Document ID: 176365 | Last Modified Date: Feb 18, 2026



GEOGRAPHIC INFORMATION



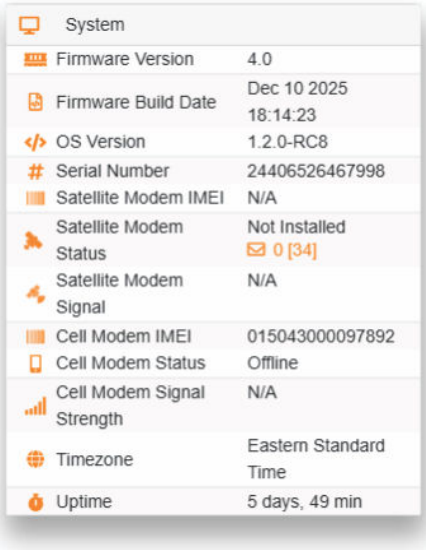
The **Geographic** card displays various geographic data, including the machine's current latitude, longitude, and elevation.

Download Location Data–Select the **Download** button to open a pop-up window. Enter the desired start and end dates and then select a file type (KML, CSV, or XML) to download the data.

The downloaded file includes the latitude, longitude, elevation of the machine, and the time when the data was recorded, along with information related to the accuracy of the data.

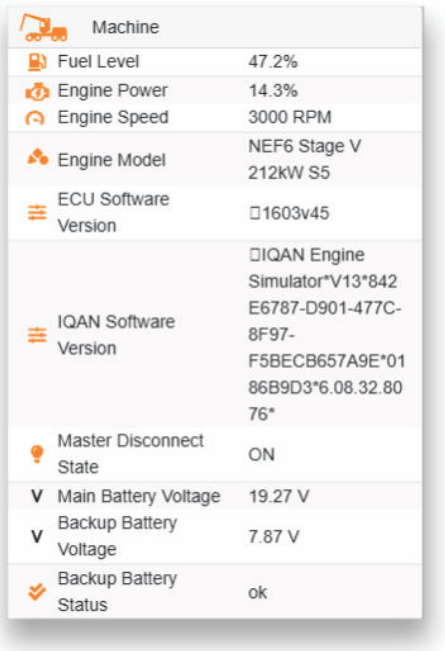
KML files can be viewed in any geospatial software program, such as Google Earth.

SYSTEM INFORMATION



The **System** card displays information about the telematics system and software onboard the LogOn TGUR module on the machine, including the current firmware version and build date. This card also shows the number of satellite messages sent in the past 7 days and how many messages are pending (waiting to be sent).

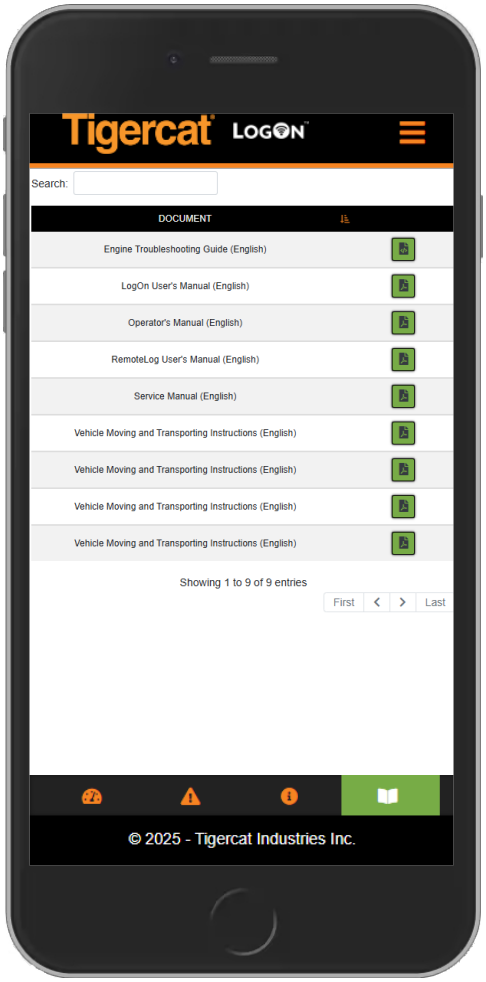
MACHINE INFORMATION



The **Machine** card displays various machine information, such as current fuel level, engine load, engine speed, and battery voltage.

DOCUMENTATION DASHBOARD

Document ID: 176366 | Last Modified Date: Feb 17, 2026



The documentation dashboard contains manuals applicable to the machine, including documents such as the machine's operator's manual, moving instructions, and engine troubleshooting manual.

Search–Enter a search term to filter the displayed documents.

Open PDF–Select this button to download the PDF to your device.

TEXT MESSAGES

Document ID: 176367 | Last Modified Date: Feb 17, 2026

CAUTION

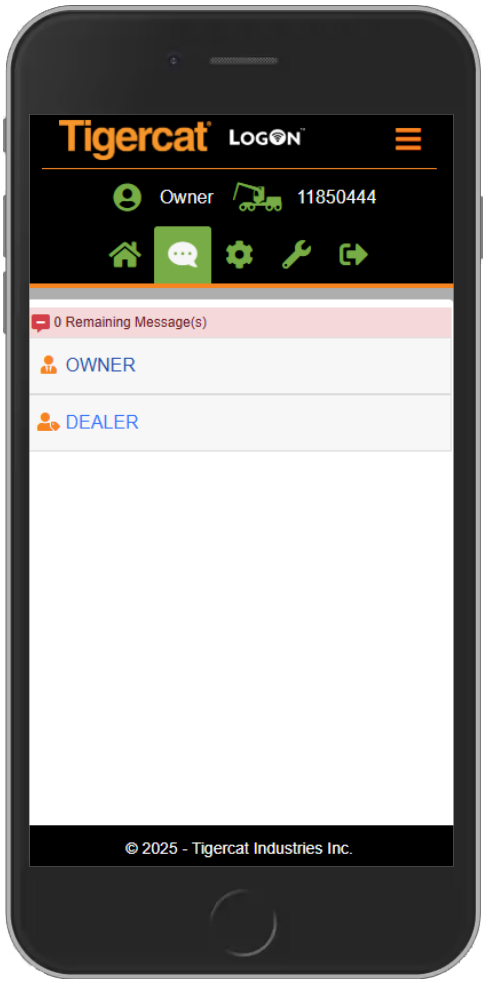
Do not use the telematics text messaging service for emergency communication.

Text messages are only sent and received when the machine is running and has a clear view of the satellite. Messages may not be immediately sent or received.

NOTE

All text messages sent from or received by this machine are readable by any operator of the machine.

All text messages sent from this machine are readable by the machine owner.



2 **Text Notification**–This icon indicates the total number of unread messages (if any).

2 **Conversation Notification**–This icon indicates the total number of unread messages (if any) in the conversation.

Messages Remaining–Indicates how many messages can be sent to and from the machine before additional text messages need to be purchased.

TEXT MESSAGING SERVICE

Document ID: 36580 | Last Modified Date: Feb 17, 2026

⚠ CAUTION

Do not use the telematics text messaging service for emergency communication.

Text messages are only sent and received when the machine is running and has a clear view of the satellite. Emergency messages may not be immediately sent or received.

Pay-As-You-Go text messaging plan packages are available through your Tigercat-TCi Dealer and are sold in bundles of 25, 50, 100, or 250 messages.

Text Messaging feature allows the user to send and receive text messages between a machine's LogOn and RemoteLog using a satellite network. With this feature, there is no need for cellular network coverage at the machine's worksite.

The Text Messaging menu gives access to all conversations available to the user. The top of the screen displays information about the satellite data plan, including the number of messages remaining and the number of days before the plan expires (if applicable).

LogOn users can send RemoteLog messages to the Owner and to Dealer Service. Messages can be up to 140 characters in length and cannot contain attachments. This system supports text messages containing non-English language characters.

The LogOn text messaging feature does not use the device's mobile plan to send messages. All LogOn text messages are sent through the RemoteLog satellite data plan assigned to the machine.

When the machine is under heavy cover, the telematics module will continue trying to send or receive messages until successful.

MINIMUM REQUIREMENTS FOR TEXT MESSAGING

A machine must meet the following requirements to use the text messaging feature:

- The machine must be equipped with a RemoteLog satellite modem.
- The machine must be equipped with the LogOn telematics system.
- The LogOn firmware must be updated to the latest version.
- A text messaging plan must be purchased for the machine.
- The operator must be connected to LogOn with a cell phone, tablet, or laptop in order to send or receive text messages.

🕮 NOTE

CloudGate telematics systems do not support text messaging. Machines with CloudGate must be upgraded to LogOn using a retrofit kit. For more information about telematics retrofit kits, contact your Tigercat-TCi Dealer.

MESSAGE STATUS

The message status icon next to any sent message indicates if the message has been successfully sent through the telematics system.

Queued–The message has been placed on queue for transmission.

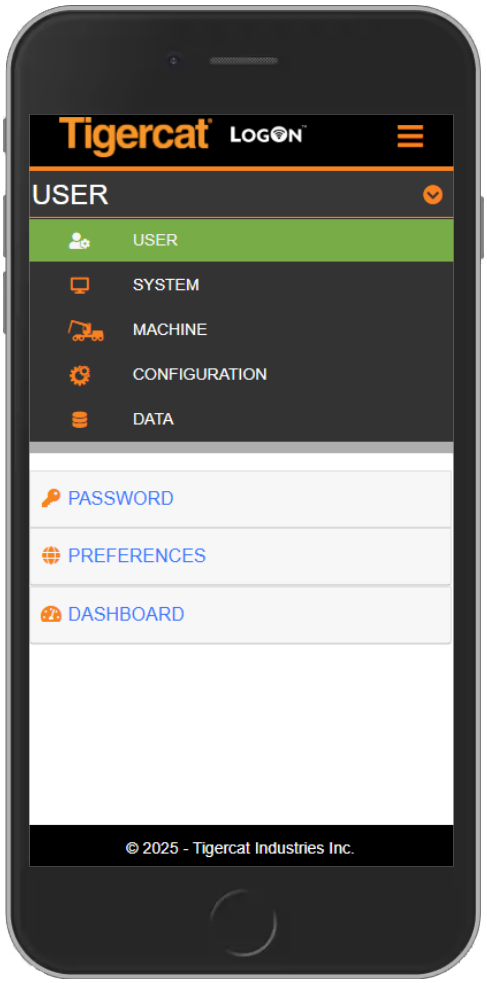
Sent–The message has been successfully sent through the satellite.

Failed–The message transmission failed due to an internal error.

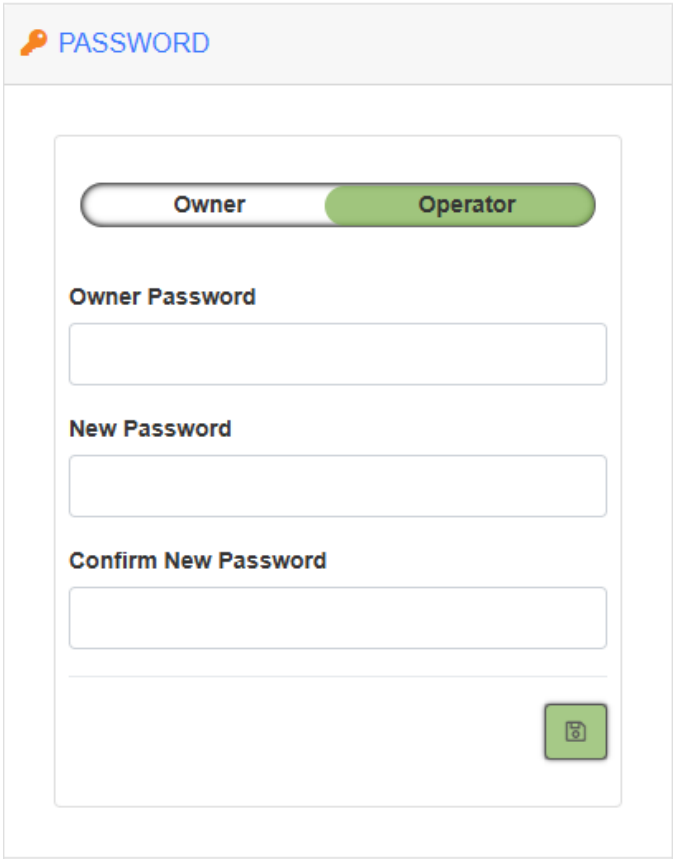
SETTINGS

USER

Document ID: 176370 | Last Modified Date: Feb 17, 2026



PASSWORD



The **Password** panel allows the owner to change the owner and operator account passwords for the machine. Guest accounts do not require a password.

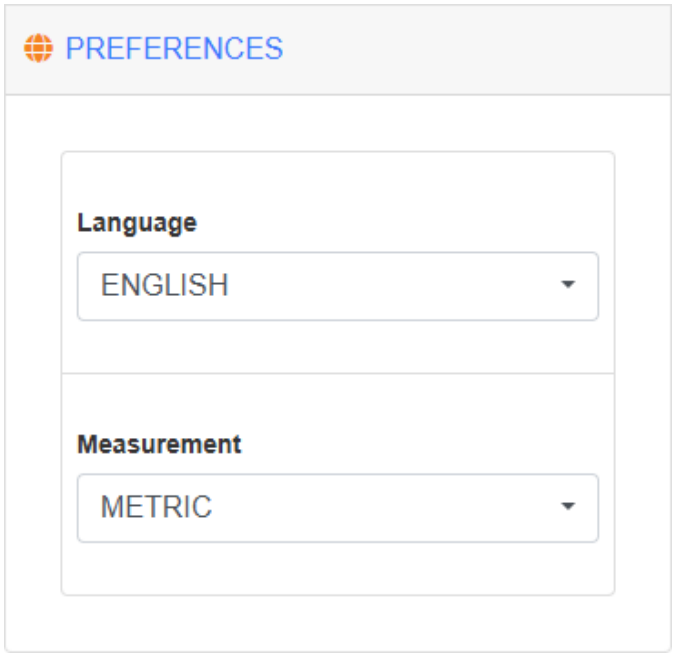
Owners should set a secure password to prevent unauthorized access to the machine's settings and data.

Account passwords are stored locally on the telematics module. Changing the account password on one machine will not affect other machines.

To change the Owner or Operator password:

1. Log in to the Owner account.
2. Navigate to **Settings**–**User**–**Password**.
3. Select either Owner or Operator to change that account's password.
4. Enter the current Owner password.
5. Enter the new Owner or Operator password.
6. Select the **Save** button.

PREFERENCES



The **Preferences** panel displays the current language and measurement system.

Language

To change the language, select the **Language** drop-down menu and select one of the options:

- English
- French
- Spanish
- Portuguese
- Russian
- Swedish

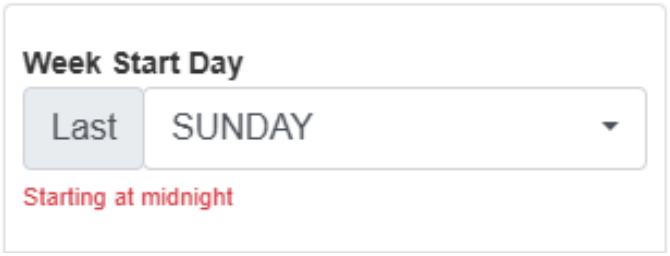
Measurement

To change the measurement system, select the **Measurement** drop-down menu and select one of the options:

- Metric
- Imperial

DASHBOARD

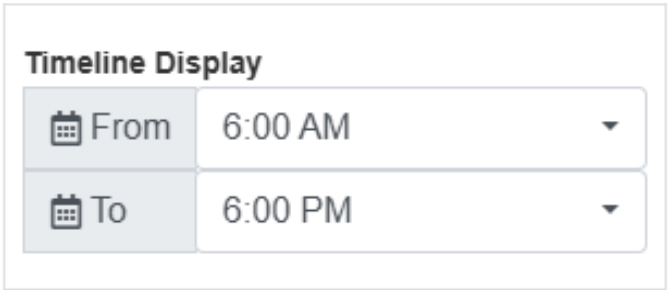
Week Start Day



The week start day determines the start date when THIS WEEK is selected on any of the dashboard cards. The data starts at midnight of the selected weekday.

To change the week start day, select the **Week Start Day** drop-down menu and select one of the options.

Timeline Display



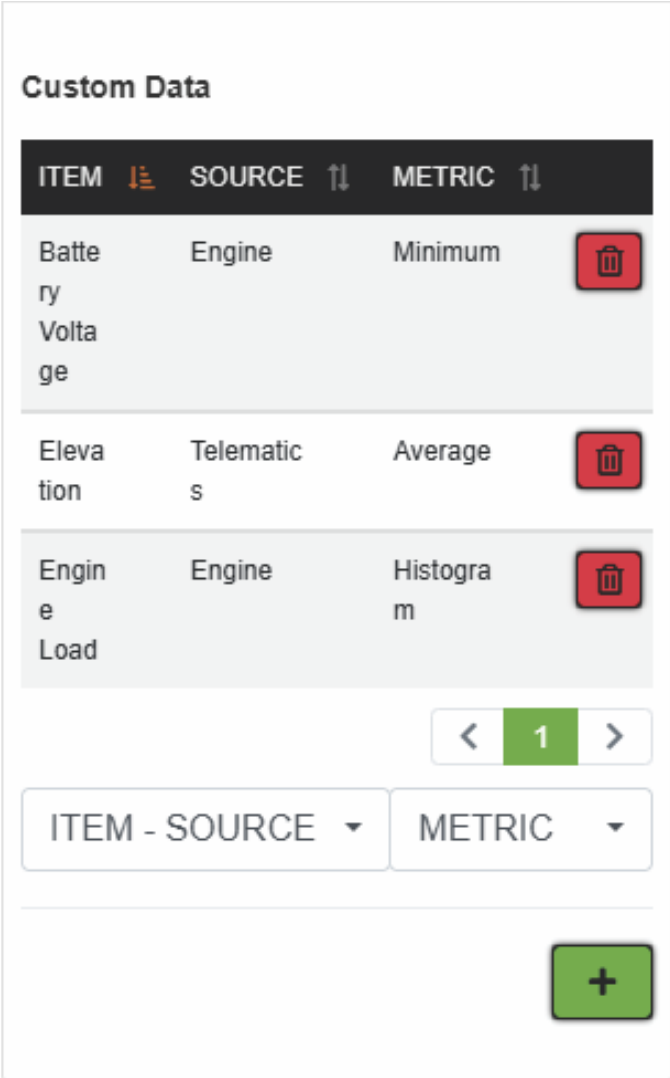
The timeline display determines which hours display on the timeline. Set the timeline hours to the operator's typical hours of operation (work shift) to view machine activities in more detail.

To change the timeline display hours:

1. Select the **From** drop-down menu, then select a start time from the list.

   Scroll or tap and slide on the list to view more available times.
2. Select the **To** drop-down menu, then select an end time from the list.

Custom Data



To add custom data to the dashboard:

1. Select the **Item - Source** drop-down menu, then select a parameter from the list.

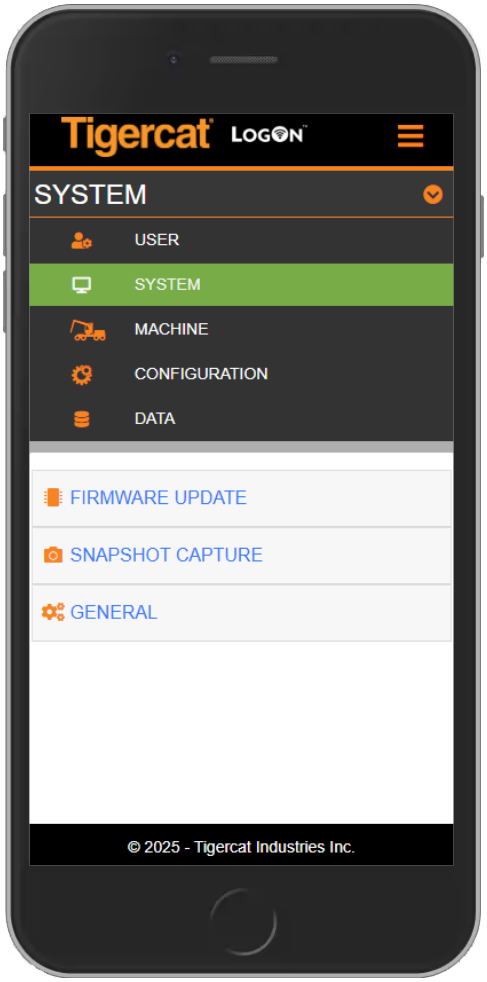
   Enter a search term in the search field to filter the list.

   Scroll or tap and slide on the list to view more available parameters.
2. Select the **Metric** drop-down menu, then select a metric from the list.
   - **Value** displays the most recent value found in the selected date range.
   - **Average** calculates the average of all values found between the selected start and end dates.
   - **Minimum** displays the minimum value found between the selected start and end dates.
   - **Maximum** displays the maximum value found between the selected start and end dates.
   - **Histogram** displays a visualization of how much of the data is categorized into specific value ranges.
3. Select the + **Add Data** button.

To remove custom data from the dashboard, select the 🗑 **Remove Data** button, then select the 🗑 **Remove Data** button again to confirm.

SYSTEM

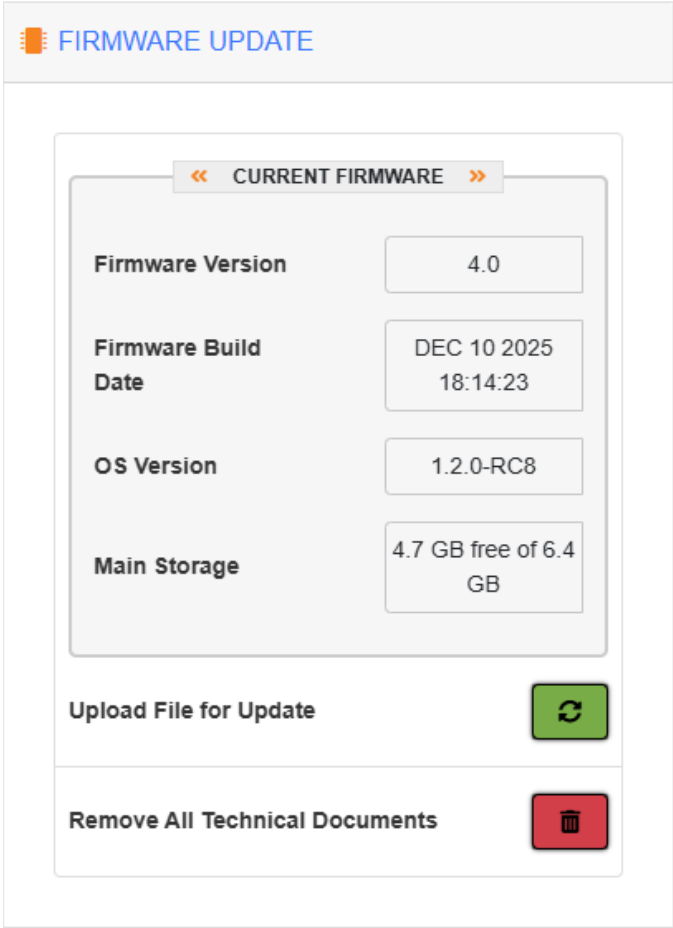
Document ID: 176371 | Last Modified Date: May 19, 2026



FIRMWARE UPDATE

The **Firmware Update** panel shows current firmware and system information, as well as options for updating or removing data from the system.

Updating LogOn Firmware

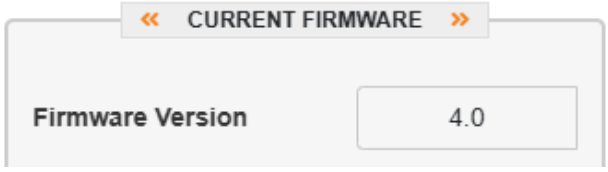


Select the » **Next** button to switch between the **Current Firmware** information and the list of **Current Documents** loaded onto the module.

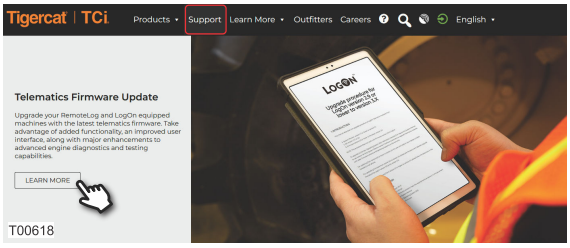
To perform a firmware update:

> **NOTE**
> The instructions and required files will vary depending on the machine's current version of LogOn. Make sure to follow all update steps listed in the version-specific update procedure.

1. Identify the version of LogOn currently installed on the machine.



2. Prepare the firmware update files (requires internet access):
   a. Navigate to **www.tigercat.com/telematics-firmware-update/**.

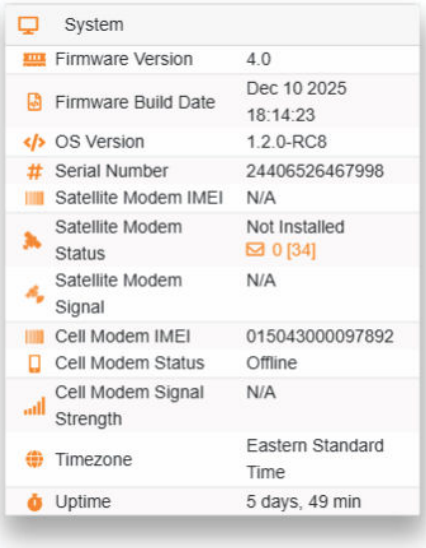


   b. At the bottom of the page, select the update procedure based on the machine's current version of LogOn.



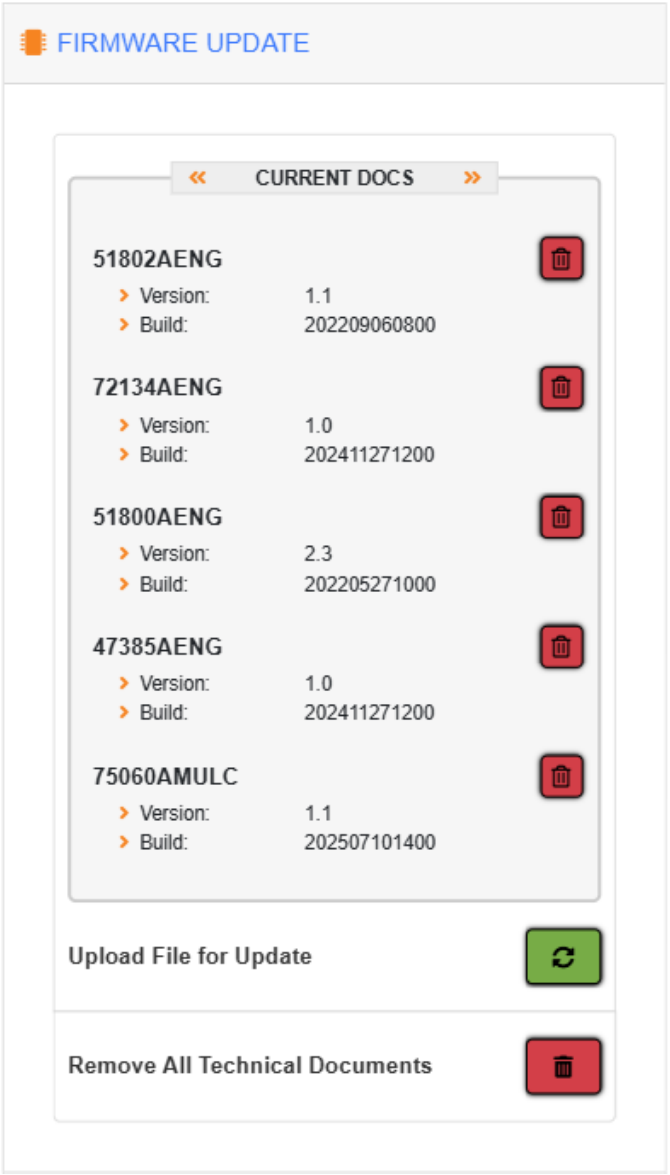
   c. Download all required update files to the device that will be used to connect to the machine.
   d. Download the firmware update instructions to your device.

3. Install the firmware update files at the machine:
   a. Connect to the LogOn wireless network.
   b. Navigate to the **Information**–**System** card on the dashboard and check the telematics type. If no telematics type is listed, the machine is equipped with the standard telematics module.



   c. Navigate to **Settings**–**System**–**Firmware Update**.
   d. Check the firmware update instructions for which update file is required based on the machine's telematics type.
   e. Select the **Upload File for Update** button, select the required file from your device, and then select the **Upload** button.

Managing Technical Documents

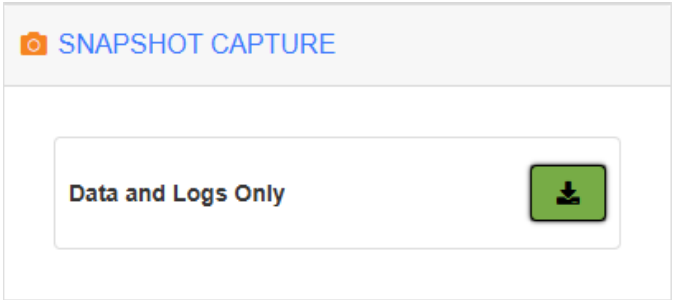


Select the » **Next** button to switch between the **Current Firmware** information and the list of **Current Documents** loaded onto the module.

To remove individual documents from the telematics module, select the **Delete** button next to any document, then select the **Delete** button again to confirm.

To remove all documents from the telematics module, select the **Remove All Technical Documents** button, then select the **Delete** button to confirm.

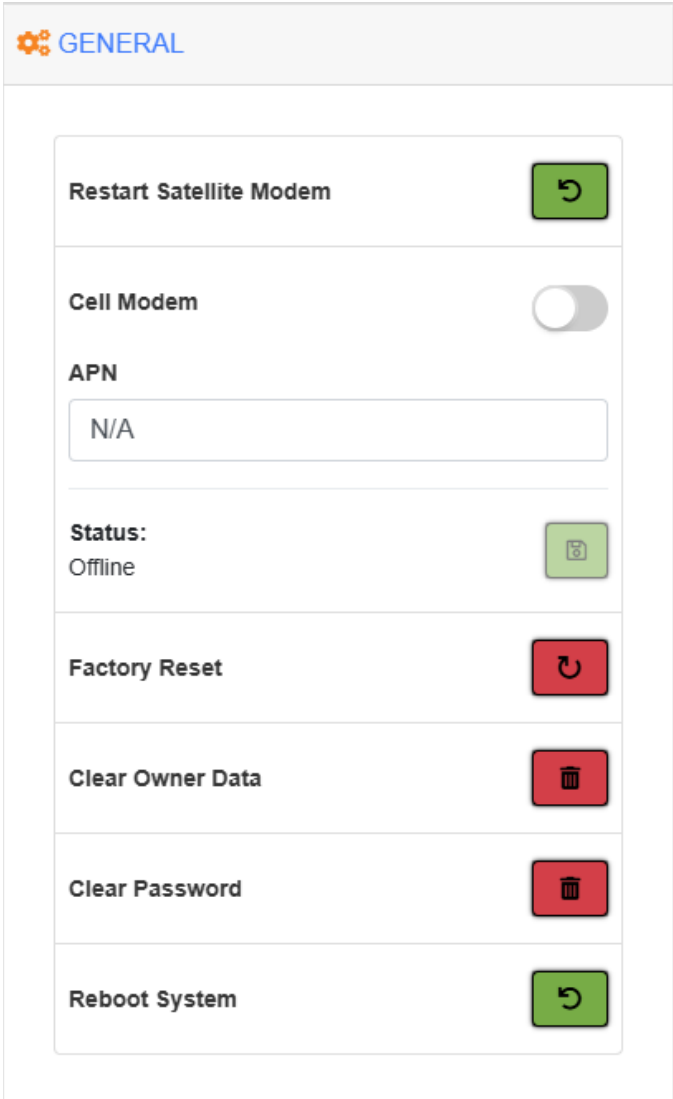
SNAPSHOT CAPTURE



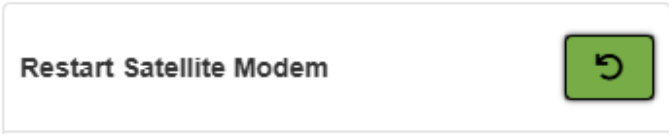
Download Snapshot–Select the **Download** button to download snapshot information to the device. The downloaded snapshot file can be emailed to your Tigercat-TCi Dealer at a later time.

Snapshot files are encrypted and not intended for personal use.

GENERAL



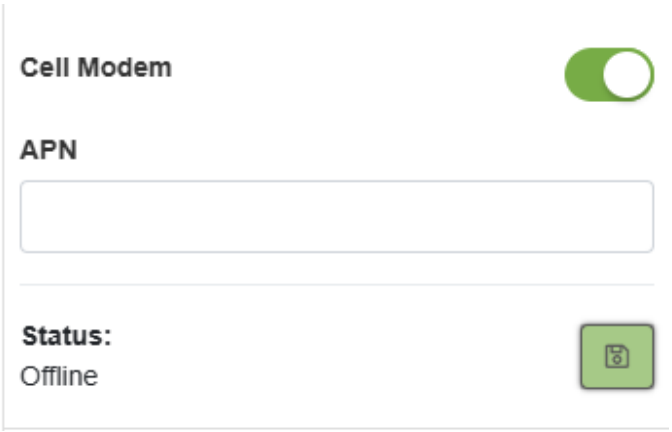
Connection Settings



Restart Satellite Modem–In the case of satellite connectivity issues, select the **Reset** button next to **Restart Satellite Modem** to restart the modem.



Reboot System–Select the **Reset** button next to **Reboot System** to reboot the satellite modem and the telematics module.



Cell Modem (LogOn 4.0 or later)–The telematics module can be equipped with a SIM card and a mobile plan from a wireless service provider to provide internet access through the LogOn wireless network.

Status indicates if the telematics module is connected to the mobile network (Online) or disconnected (Offline).

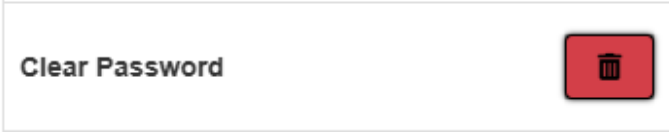
To enable cell modem connectivity on the machine:

1. Install a SIM card in the telematics module.
2. Toggle the **Cell Modem** button ON (green).
3. Enter the APN name provided by the wireless service provider.

   The APN is an address which tells the telematics module how to connect to the carrier's network. Examples include **sp.koodo.com** and **fast.t-mobile.com**.
4. Select the **Save** button to save the connection settings.

Clearing System Data

Deleted Data	Clear Password	Clear Owner Data	Factory Reset
Owner and Operator passwords	x	x	x
Contents of data uploaded to the system	x	x	x
Contents of exports downloaded from the system	x	x	x
Engine diagnostic records and reports	-	x	x
Configurations settings	-	x	x
All collected data except machine alerts, production data, and service data	-	x	-
All collected data	-	-	x

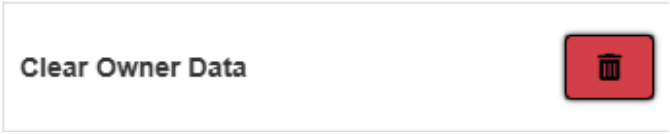


Clear Password–To clear the Owner and Operator passwords, select the **Delete** button next to **Clear Password**.

A confirmation screen will appear, warning that the following data will be removed:

- Owner and Operator passwords
- Contents of data uploaded to the system
- Contents of exports downloaded from the system

Select the **Delete** button to confirm.

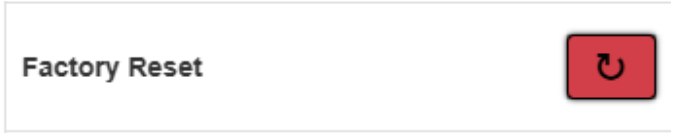


Clear Owner Data–Clear the owner data if a new owner is taking possession of the machine. To clear owner data, select the **Delete** button next to **Clear Owner Data**.

A confirmation screen will appear, warning that the following data will be removed:

- Owner and Operator passwords
- Engine diagnostic records and reports
- Configurations settings
- All collected data except machine alerts, production data, and service data

Select the **Delete** button to confirm. At this time, the system will reboot.



Factory Reset–To perform a full factory reset, select the **Reset** button next to **Factory Reset**.

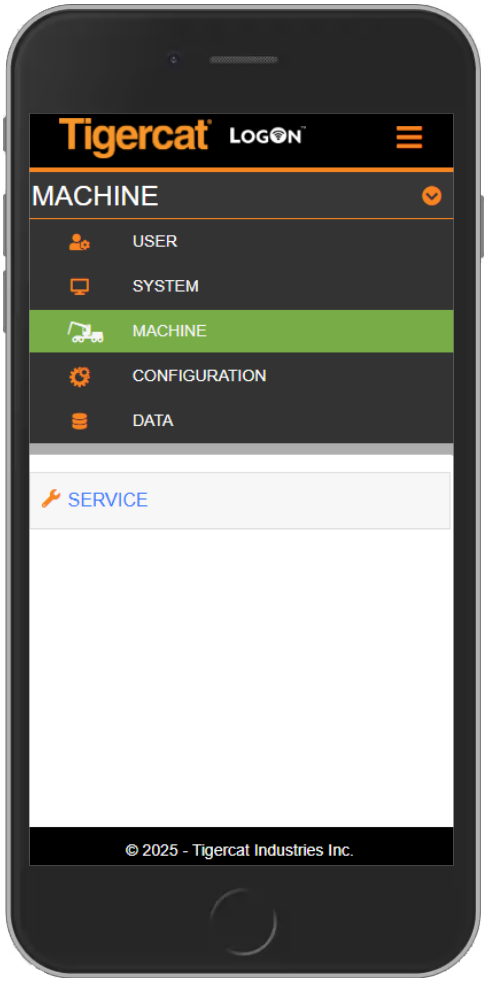
A confirmation screen will appear, warning that the following data will be removed:

- Owner and Operator passwords
- Engine diagnostic records and reports
- All collected data

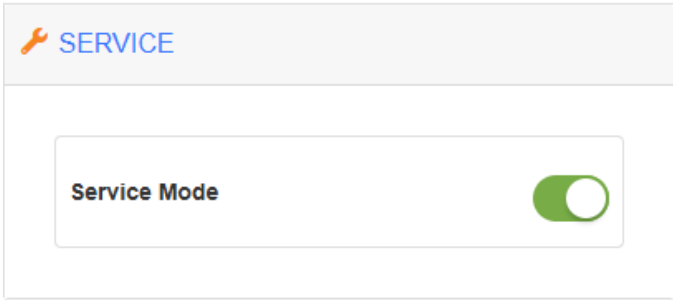
Select the **Reset** button to confirm. At this time, the system will reboot.

MACHINE

Document ID: 176372 | Last Modified Date: Feb 17, 2026



SERVICE MODE



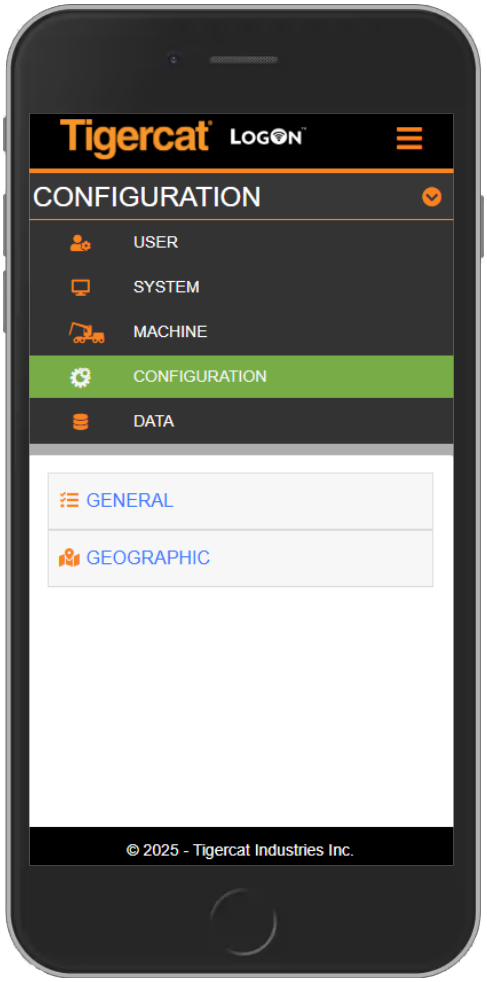
Service Mode Enabled/Disabled–Select this toggle to enable or disable Service Mode. When the toggle is green, Service Mode is enabled. When the toggle is grey, Service Mode is disabled.

When Service Mode is enabled, the machine status in RemoteLog will change to Service and the duration of the Service activity will be recorded. While the machine is in service mode, fault codes from the machine are not sent to RemoteLog.

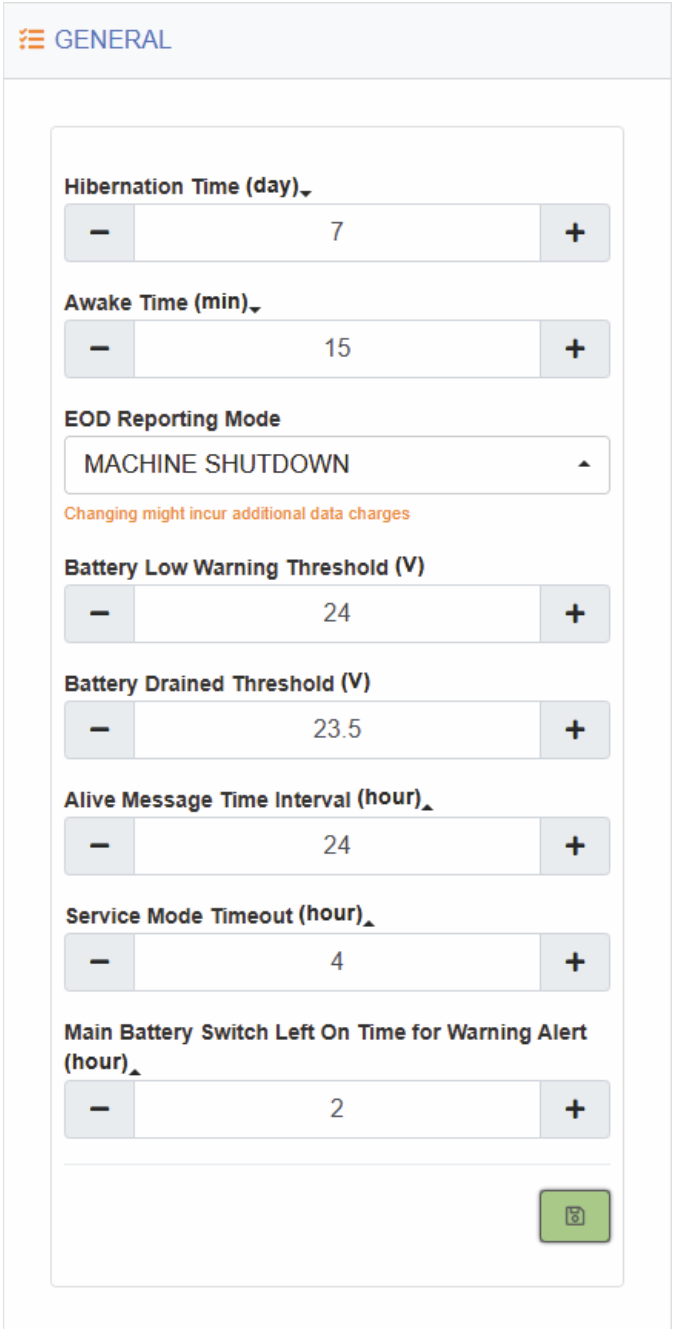
If Service Mode is not disabled at the machine after four hours, the system will automatically turn Service Mode back to disabled. The Service Mode timeout period can be adjusted in **Settings–Configuration–General [27]**.

CONFIGURATION

Document ID: 176373 | Last Modified Date: Feb 17, 2026



GENERAL



Change Units–Select the ▼ drop-down icon next to any general setting to change the units for that setting. The available units may include seconds, minutes, hours, or days.

Change Value–Select the **+ Plus** or **– Minus** buttons to incrementally change the value. Select the value to type in a different value into the field.

Save Changes–Select the **Save** button to save any changes to the general settings. The button appears faded if no changes have been made.

Hibernation Time (min, hour, day)–This setting determines how long the telematics module is in Hibernation Mode before fully powering off (in minutes, hours, or days). While in Hibernation Mode, the telematics module periodically wakes up to perform system checks. After the system fully powers off, it no longer performs these checks. Turning the ignition key to the RUN position restarts the Hibernation period.

Awake Time (min, hour)–This setting determines how long the telematics module stays on after the ignition key is turned to the STOP position (in minutes or hours).

EOD Reporting Mode–This setting determines how frequently End of Day (EOD) reports are sent to the RemoteLog server for processing. Select the drop-down menu to change the Reporting Mode to one of the following:

- Machine Shutdown–An EOD report is sent every time the engine is stopped.
- Once Per 24 Hours–An EOD report is sent when the engine is stopped if a report has not already been sent within the past 24 hours.
- Once Per 12 Hours–An EOD report is sent when the engine is stopped if a report has not already been sent within the past 12 hours.
- Once Per 8 Hours–An EOD report is sent when the engine is stopped if a report has not already been sent within the past 8 hours.
- Once Per 4 Hours–An EOD report is sent when the engine is stopped if a report has not already been sent within the past 4 hours.

Battery Low Warning Threshold (V)–This setting determines the voltage threshold at which the machine sends the Battery Voltage Low alert message (SPN 8903).

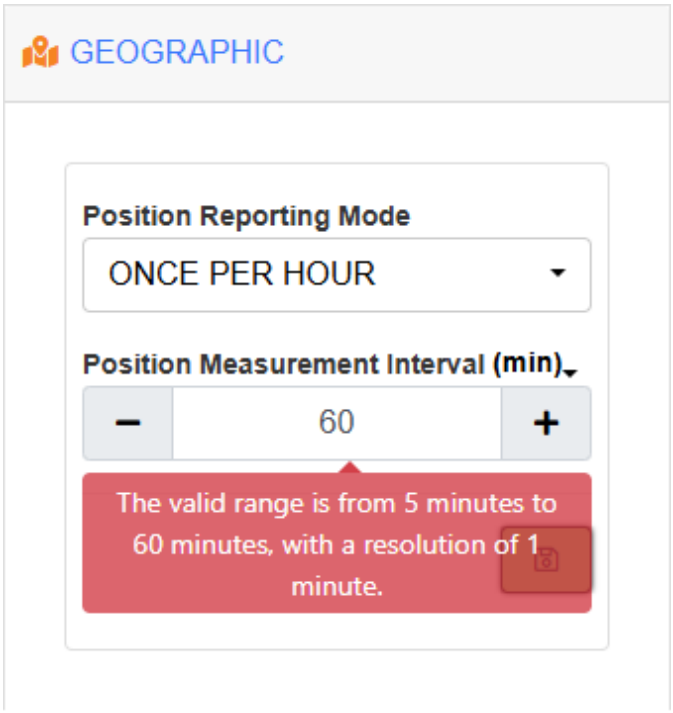
Battery Drained Threshold (V)–This setting determines the voltage threshold at which the machine sends the Battery Voltage Critically Low critical message (SPN 8904). At this point, the batteries are drained, the engine may fail to start, and continued use could damage the batteries.

Alive Message Time Interval (min, hour)–This setting determines how often the telematics module wakes up while hibernating to report to RemoteLog (in minute or hours).

Service Mode Timeout (min, hour)–This setting determines how long Service Mode stays enabled before automatically switching off (in minutes or hours). This timeout applies when the user forgets to disable Service Mode after performing service or maintenance work on the machine.

Main Battery Switch Left On Time for Warning Alert (min, hour)–This setting determines how long the battery disconnect switch needs to be left on after the engine is stopped (in minutes or hours) before sending the Battery Disconnect Switch Left On alert message (SPN 8920). When the battery disconnect switch is left on while the machine is not in use, the batteries are drained unnecessarily.

GEOGRAPHIC





Change Units–Select the ▼ drop-down icon next to any general setting to change the units for that setting. The available units may include seconds, minutes, hours, or days.



Change Value–Select the **+ Plus** or **– Minus** buttons to incrementally change the value. Select the value to type in a different value into the field.



Save Changes–Select the **Save** button to save any changes to the general settings. The button appears faded if no changes have been made.

Position Reporting Mode–This setting determines how frequently position reports are sent to the RemoteLog server for processing. Select the drop-down menu to change the Reporting Mode to one of the following:

- Every 30 Minutes–A position report is sent every 30 minutes while the machine is running.
- Once Per Hour–A position report is sent every 60 minutes while the machine is running.

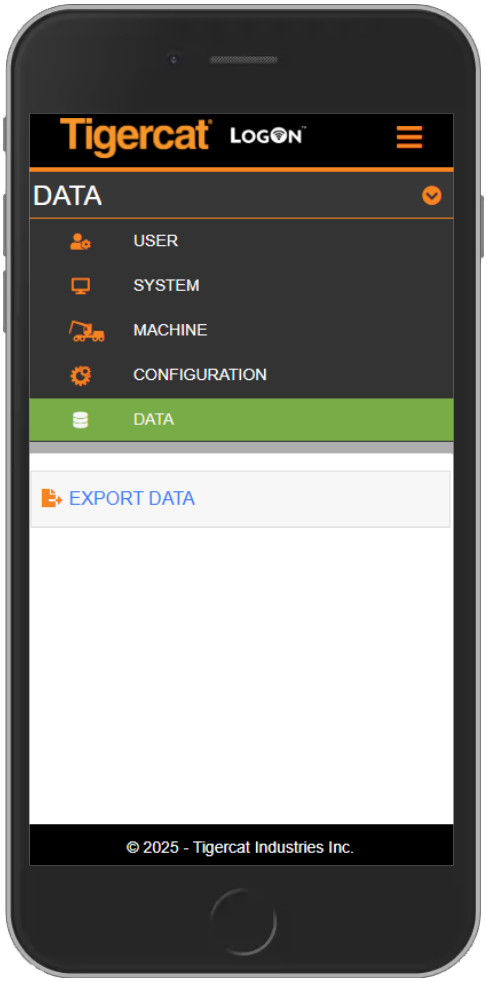
- Once Per 4 Hours–A position report is sent every 4 hours while the machine is running.
- Machine Shutdown–A position report is sent every time the engine is stopped.

Position Measurement Interval (sec, min)–This setting determines how frequently the machine's geographic data is collected (in seconds or minutes). If the machine has not moved since the last time geographic data was collected, no new information is collected.

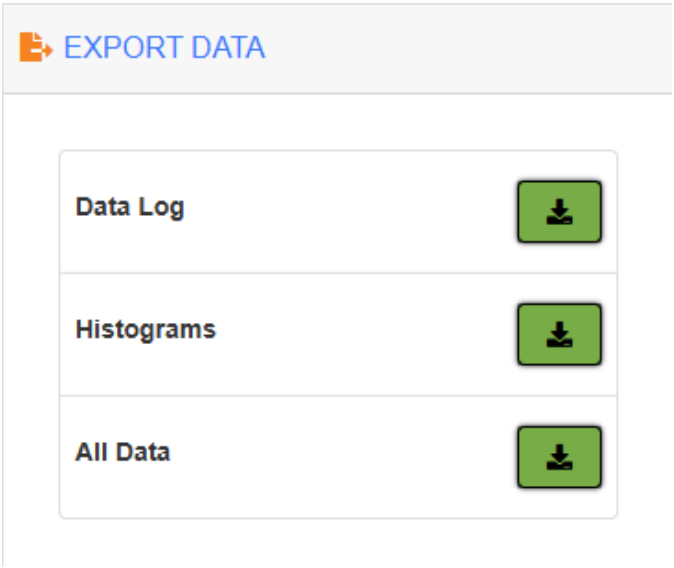
> **NOTE**
> The Position Measurement Interval determines how frequently the geographic data is collected from the machine. The Position Reporting Mode determines how frequently that collected geographic data is sent to RemoteLog.

DATA

Document ID: 176374 | Last Modified Date: Feb 17, 2026



EXPORT DATA



Data Log–Select the **Download Data Log** button then select a date range (up to 7 days) and a file type (CSV or XLSX) to download a list of all single data points collected during the selected date range. The downloaded file includes the duration, item, value, units, and metric for each data point.

Histograms–Select the **Download Histograms** button then select a date range (up to 7 days) and a file type (CSV or XLSX) to download a histogram of all data collected during the selected date range. Histograms sort data into specified data ranges and indicate how frequently data falls within each range. For example, engine load data points is organized into different load ranges (0–25% load, 25–50% load, 50–75% load, and 75–100% load). The histogram indicates how often the engine is operating in each load range.

All Data–Select the **Download All Data** button then select a date range (up to 7 days) and a file type (CSV or XLSX) to download all data collected during the selected date range. The download includes the following files:

- Alerts–This file includes a list of all diagnostic messages generated during the selected date range, including the dates and number of occurrences and descriptive information such as the source, severity, and related component. The same report can be downloaded from the Diagnostics screen on the dashboard.
- Events Data–This file includes a list of recorded machine activities (Production, Shutdown, or Idle) with the activity start time, fuel level, fuel consumption rate, and elapsed time since engine start for each activity.
- Geographic Data–This file includes the latitude, longitude, elevation of the machine, and the time when the data was recorded, along with information related to the accuracy of the data. The same report can be downloaded from the Geographic card on the Information dashboard.
- Histogram Data–This file includes a histogram of all data collected during the selected date range. Histograms sort data into specified data ranges and indicate how frequently data falls within each range. For example, engine load data points is organized into different load ranges (0–25% load, 25–50% load, 50–75% load, and 75–100% load). The histogram indicates how often the engine is operating in each load range.
- Log Data–This file includes a list of all single data points collected during the selected date range with the the duration, item, value, units, and metric for each data point.
- Service Data–This file includes the report time, engine hours at time of service, service type, and additional service information for each service procedure performed through LogOn. The same report can be downloaded from the Service History screen on the dashboard.

MACHINE DIAGNOSTICS

ENGINE DIAGNOSTICS

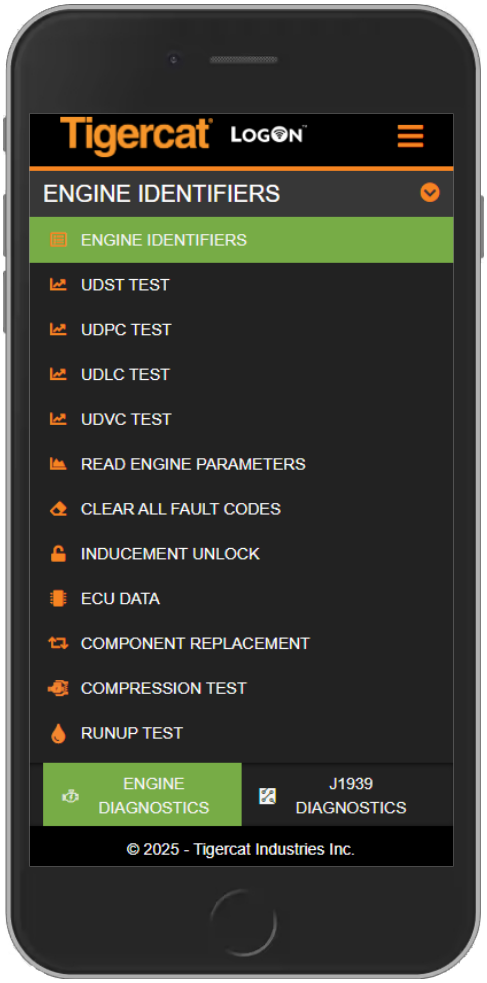
Document ID: 176185 | Last Modified Date: Feb 17, 2026

NOTE

Do not attempt to perform any diagnostic tests or repairs without proper training.

NOTE

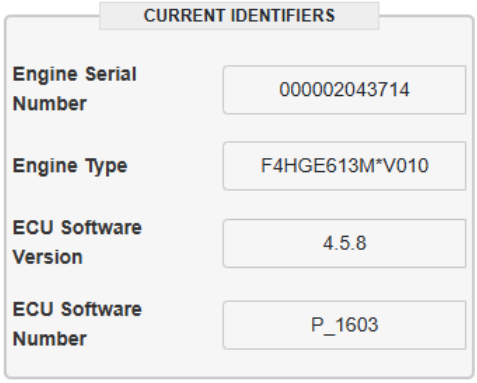
The engine diagnostics tab displays tests and procedures appropriate for the machine's engine and emissions level. If the engine is not supported, no tests will be displayed.



ENGINE INFORMATION

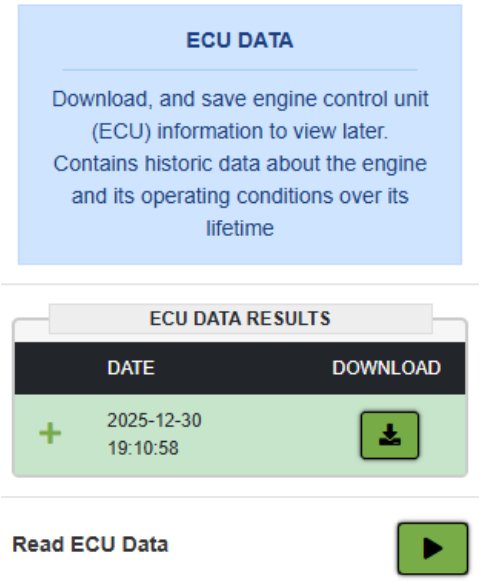
Document ID: 176187 | Last Modified Date: May 19, 2026

Engine Identifiers



The Engine Identifiers card provides information about the engine configuration that may be helpful when diagnosing engine issues.

ECU Data

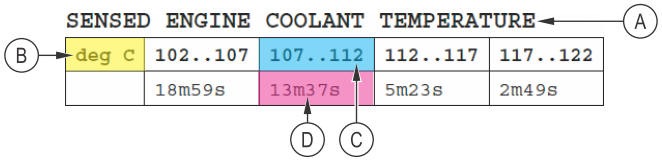


Read ECU Data–Select the ▶ **Run** button to generate a detailed report of the engine data stored in the ECU.

Download ECU Data–Select the **Download** button to download the ECU data. The downloaded zip file includes a PDF with the test information, machine information, and various engine data depending on the engine type, as well as an encrypted text file which can be sent to your Tigercat-TCi Dealer for analysis and troubleshooting.

How To Interpret The ECU Data Report

Total Time Recorded (Single Parameter)–The ECU sorts data for each parameter into specified value ranges. This chart indicates the total time in each value range for that parameter.



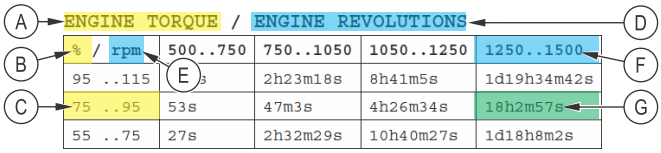
A Parameter Name
B Unit of Measurement (°C)
C Value Range (107–112°C)
D Total Time in Value Range (13 minutes 37 seconds)

In this example, the ECU recorded that the Engine Coolant Temperature was between 107–112°C for a total of 13 minutes and 37 seconds.

The ECU records the total time for various parameters, including the following:

- Engine Speed
- Engine Coolant Temperature
- Ambient Temperature
- Fuel Temperature
- Ambient Pressure
- Oil Pressure
- Exhaust Flap Actuator Position
- Braking Torque
- NH_3 Sensor Concentration

Total Time Recorded (Two Parameters)–The ECU sorts data for each parameter into specified value ranges. This chart indicates the total time in the intersection of value ranges for two parameters.



A First Parameter Name
B First Parameter Units (%)
C First Parameter Value Range (75–95%)
D Second Parameter Name
E Second Parameter Units (rpm)
F Second Parameter Value Range (1250–1500 rpm)
G Total Time Simultaneously in Both Ranges (18 hours, 2 minutes, 57 seconds)

In this example, the ECU recorded that the Engine Torque was between 75–95%, while the Engine Speed was between 1250–1500 rpm, for a total of 18 hours, 2 minutes, and 57 seconds.

The ECU records the total time for various combinations of parameters, including the following:

- Engine Torque by Engine Speed
- Oil Pressure by Engine Speed
- Engine Speed by Temperature Upstream of Catalyst (SCR)
- Exhaust Gas Treatment by Intake Air Temperature
- Temperature Upstream of Catalyst (SCR) by Upstream NOx Estimated Concentration

Single Range Timers and Event Counters–This report displays a list of engine parameters with the total time spent in a defined range and the number of instances in which the parameter entered that range. This list includes a number of items outside the normal operating range of the machine, which can help technicians quickly identify problems. This list includes the following items:

- Engine Speed > 2750 rpm
- Coolant Temperature > 122°C
- Intake Air Temperature > 75°C
- Oil Temperature > 130°C
- Temperature Upstream of Catalyst (DOC) > 575°C
- Temperature Upstream of Catalyst (SCR) > 700°C
- Intake Air Pressure > 3.50 bar

A range of > 1 indicates a binary check. For example, when the ignition key is in the STOP position, Ignition On > 1 is not met. When the ignition key is turned to the RUN position, Ignition On > 1 is met, the counter adds 1, and the timer adds the duration.

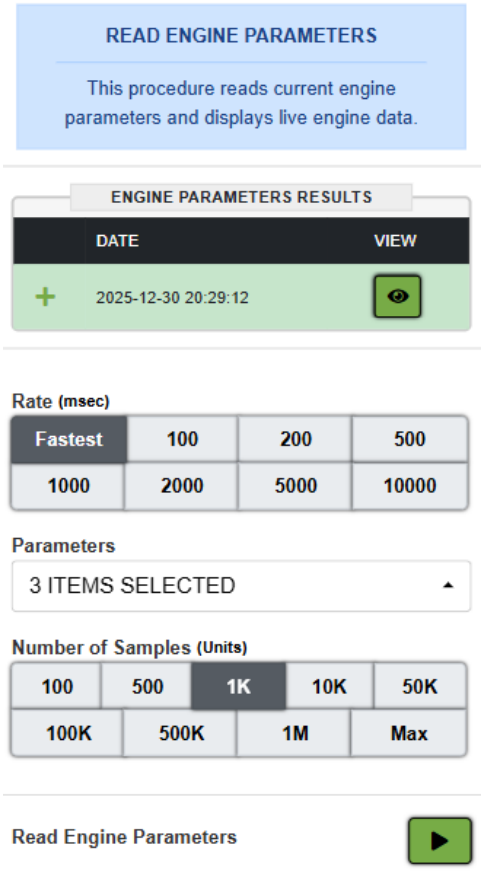
Max/Min Physical Values–This report displays a list of the minimum and maximum recorded values for various engine parameters, including the following:

- Engine Coolant Temperature
- Differential Pressure of the Particulate Filter
- Exhaust Temperature Upstream of the DOC
- Intake Air Temperature
- Fuel Temperature
- Intake Air Pressure

Engine Data Values–This report displays engine activity and fuel consumption information, including the following:

- Total ECU On Time
- Total Engine Run Time
- Total Idle Run Time
- Total Engine Revolutions
- Total Fuel Consumption

Read Engine Parameters



Read Engine Parameters–Select the ▶ **Run** button to monitor ECU parameters in real-time and plot them on a graph for diagnostic purposes. The routine ends automatically when the set number of samples have been taken.

View Results–Select the 👁 **View** button to open the most recent results. The results can be downloaded from the results screen.

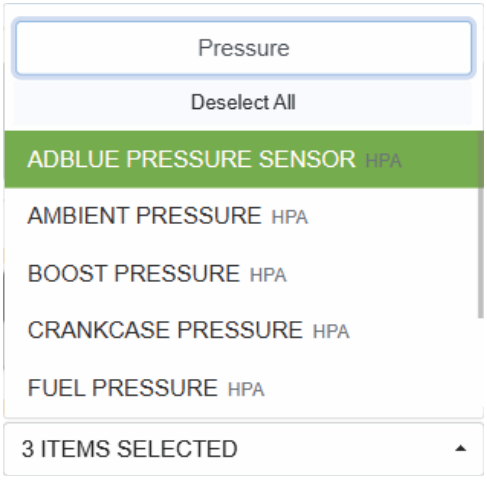
How to Run an Engine Parameters Routine

1. Select the sampling **Rate**.

   The actual sampling rate depends on the number of parameters being monitored. In most cases, it is best to select the **Fastest** sampling rate and allow the system to determine the actual sampling rate.

2. Select the **Number of Samples** to be measured.

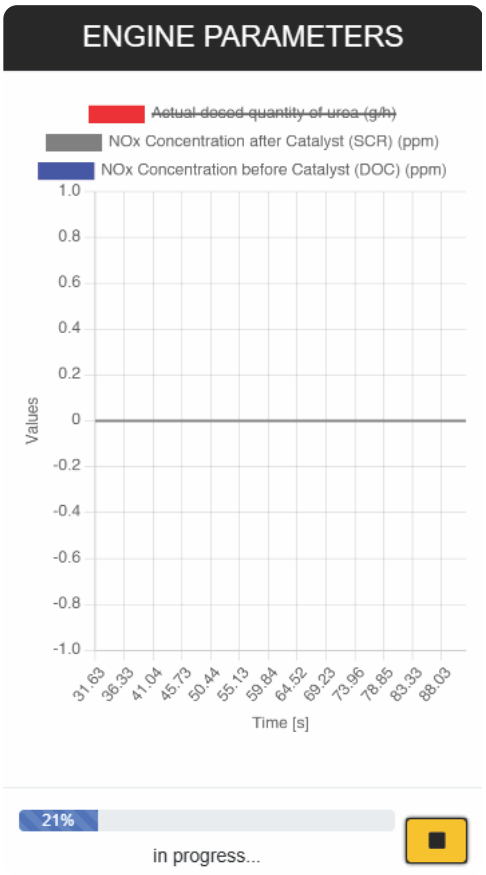
3. Select the parameters to be measured.
   a. Select the **Parameters** drop-down menu.



   b. Enter a search term into the search bar to filter the available parameters.
   c. Select the desired parameters. Only the selected parameters will be monitored during the routine.

      Selected parameters display a ✓ checkmark next to the parameter name.
   d. Close the drop-down menu.
4. Select the ▶ **Run** button to start the routine.
5. While the routine is running (and on the final results screen) each parameter can be hidden or shown by selecting the parameter name at the top of the graph. Strikethrough text indicates that the parameter is currently hidden.

   Hiding parameters on the display does not affect what data is collected. The system continues to collect data for any parameter while it is hidden.



6. If required, stop the routine at any time using the ■ **Stop** button on the graph screen (for example, if the test only needs to be run for a certain number of minutes).
7. From the results screen, select the **Download** button to download the results. The download includes the following files:
   - A CSV file with the data points from the routine
   - A PDF file of the results graph

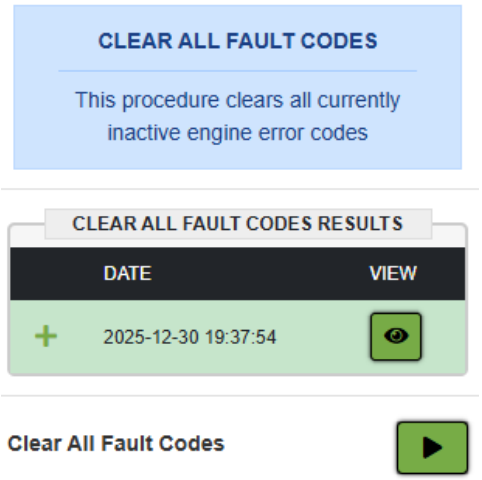
List Of Available Engine Parameters

> **NOTE**
> Available parameters depend on engine type and emissions level.

Parameter	Units
Actual Dosed Quantity of Urea	g/h
Actual Engine Brake Torque	N-m
Actual Engine Torque	N-m
AdBlue Pressure Sensor	hPa
AdBlue Quantity Setpoint	mg/s
AdBlue Tank Level	%
AdBlue Tank Temperature	°C
Ambient Pressure	hPa
Ambient Temperature	°C
Battery Voltage	mV
Boost Air Temperature	°C
Boost Pressure	hPa
Camshaft Speed	CASrpm
Concentration of Catalyst Reagent	%
Coolant Temperature	°C
Crankcase Pressure	hPa
Current Injection Quantity	mg/str
Current Lowest Limitation Torque	N-m
Cylinder Air Mass	mg/str
Diesel Particulate Filter Upstream Temperature	°C
Diesel Temperature	°C
Duty Cycle MPROP	%
Duty Cycle: AdBlue Pump Control	%
Duty Cycle: Dosing Valve	%
Engine Speed	rpm
Exhaust Flap of Engine Brake (Eflap) - Actual Closing Percentage	%
Exhaust Flap of Engine Brake (Eflap) - Required Closing Percentage	%
Exhaust Gas Temperature at the Particle Filter Inlet (DPF) - 1	°C
Filtered Supply Module Temperature	°C
Fuel Introduced Pre-Injection	mg/str
Fuel Pressure	hPa
Fuel Pressure Setpoint	hPa
Humidity Sensor	%

Parameter	Units
Humidity Sensor Voltage	mV
Injection Advance	°
Intake Air Quantity	mg/str
Main Fuel Quantity	mg/str
Measured Catalyst Efficiency	%
NH3 Concentration After Catalyst	ppm
NO2 Concentration After Catalyst	ppm
NOx Concentration After Catalyst (SCR)	ppm
NOx Concentration Before Catalyst (DOC)	ppm
Oil Pressure	hPa
Oil Temperature	°C
Post-Injection Fuel Delivery	mg/str
PT1 Filtered Output Used for Detection of Opening Phase Error	-
Ramped Smoke Limitation Quantity	mg/str
Required Catalyst Efficiency	%
Status of Active Minimum of Limitation	-
Temperature Downstream of the Catalyst (SCR) - 3	°C
Temperature Upstream of the Catalyst (SCR) - 2	°C
Total Engine Torque	N-m
Total Fuel Introduced	mg/str

Clear All Fault Codes



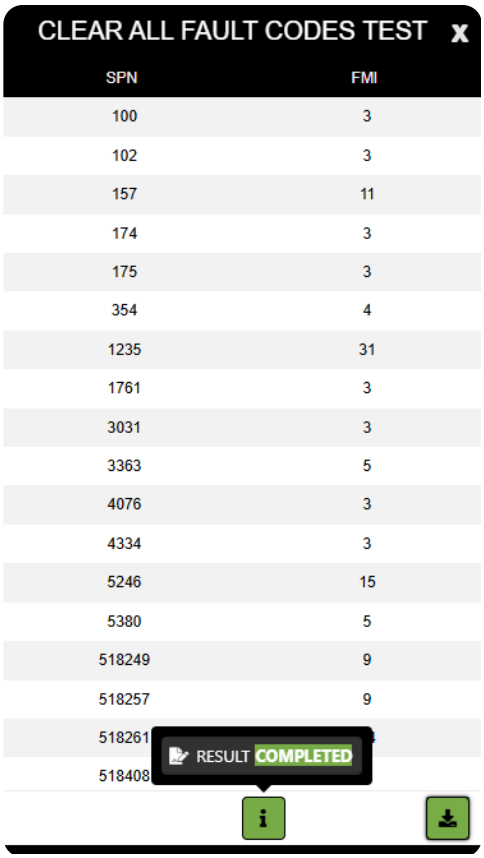
Clear All Fault Codes–Select the ▶ **Run** button to start the process to clear all inactive fault codes. Fault codes that are currently active will stay in the system.

View Results–Select the 👁 **View** button to open the most recent results. The results can be downloaded from the results screen.

How to Clear Inactive Fault Codes

1. Select the ▶ **Run** button to start the process to clear all inactive fault codes.
2. When prompted, STOP the engine. A 60 second timer starts to allow time for the process to finish.
3. When the timer ends, turn the ignition key to the RUN position and select **Continue** in LogOn.

   The results page shows all of the codes which were successfully cleared. There's an option to download the results and an info button to display the test status (completed, cancelled).
4. From the results screen, select the 🡻 **Download** button to download the results. The download includes a text file listing the SPN numbers and number of occurrences of each of the deleted fault codes.



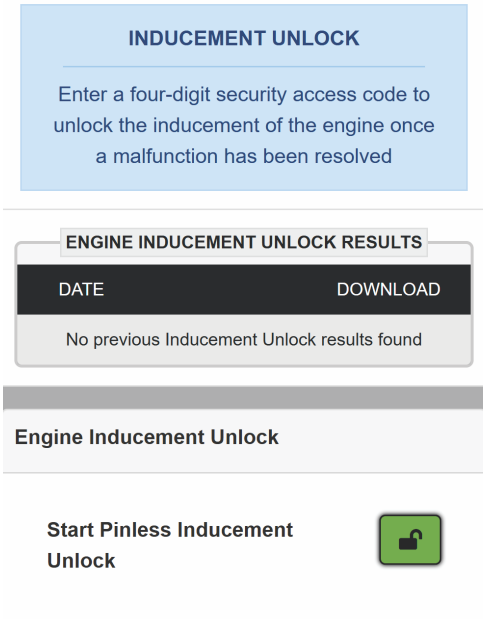
INDUCEMENT UNLOCK

Document ID: 176188 | Last Modified Date: May 19, 2026

NOTICE

The engine may be locked out when severe aftertreatment faults are detected. Do not unlock the engine unless all faults are corrected. Operating the engine with active aftertreatment faults will damage the engine and the aftertreatment system.

Pinless Inducement Unlock With RemoteLog



Pinless Unlock allows the engine inducement to be unlocked without a security code. Pinless Unlock can be performed if the machine meets the following requirements:

- The machine is equipped with RemoteLog.
- The machine has an active RemoteLog subscription.
- The machine has not exceeded the permitted number of Pinless Unlock attempts.

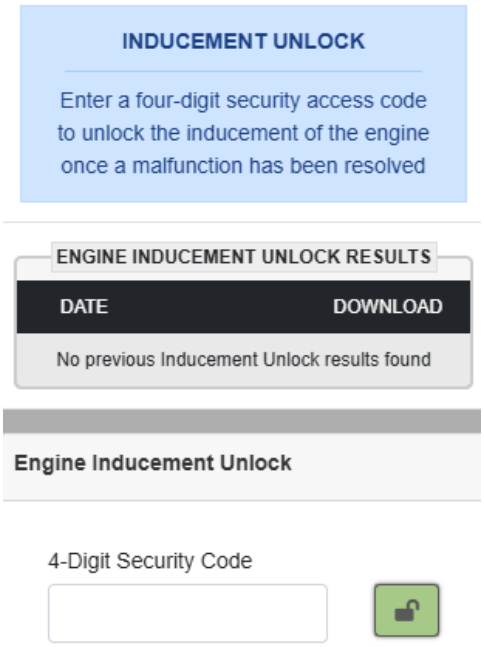
  If the machine has exceeded the permitted number of unlock attempts, a security code will be required for further unlocks.

To unlock the engine:

1. Verify that all aftertreatment system faults have been corrected.
2. Select the **Start Pinless Inducement Unlock** button. A pop-up window displays the unlock progress until the unlock is completed.

Download Results–Select the **Download** button to download the inducement unlock results. The downloaded files include the test result, test information, machine information, engine identifiers, and a list of SPN codes which occurred prior to the engine lockout.

Inducement Unlock Without RemoteLog



The engine can be unlocked with a security code to allow for temporary operation of the machine. To unlock the engine:

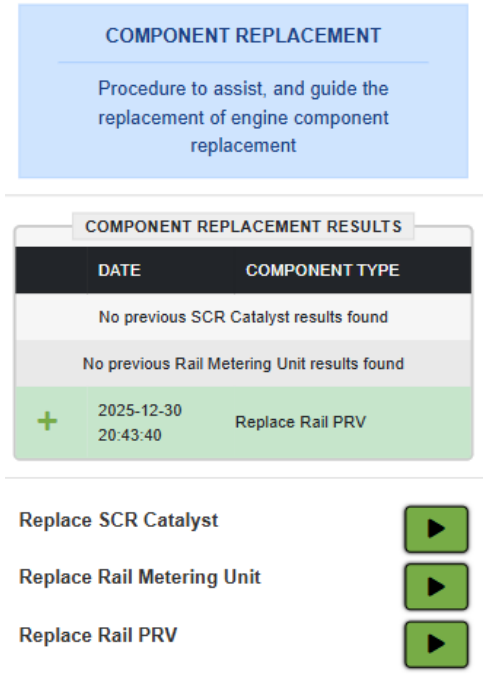
To unlock the engine:

1. Verify that all aftertreatment system faults have been corrected.
2. Contact your Tigercat-TCi Dealer to obtain a 4-digit security code.
3. Enter the security code in the **Engine Inducement Unlock** panel in LogOn.
4. Select the **Unlock** button. A pop-up window displays the unlock progress until the unlock is completed.

Download Results–Select the **Download** button to download the inducement unlock results. The downloaded files include the test result, test information, machine information, engine identifiers, and a list of SPN codes which occurred prior to the engine lockout.

COMPONENT REPLACEMENT

Document ID: 176189 | Last Modified Date: Feb 17, 2026



Replace Component–Select the **Run** button to run the component replacement process.

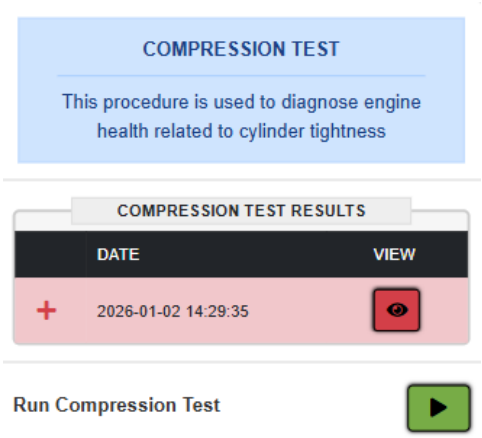
The ECU counts every use of certain tracked components in order to determine the approximate wear of those components. The Component Replacement process resets all ECU data about the selected component so that the ECU can correctly identify wear and potential faults. If Component Replacement is not run when a tracked component is replaced, the ECU may falsely attribute diagnostic errors to the wear of the component.

The results panel shows the date on which the component replacement procedure was last run.

ENGINE TESTS

Document ID: 176190 | Last Modified Date: Feb 17, 2026

Compression Test



The compression test detects relative low cylinder compression by controlling fuel and measuring crankshaft speed during engine cranking. It does not measure actual cylinder pressure. Differences in cylinder speed reveal cylinders with reduced compression, identifying one low cylinder in a 4-cylinder engine or up to two in a 6-cylinder engine.

To perform a compression test using LogOn:

1. Select the ▶ **Run Compression Test** button.
2. Complete the preliminary checks as prompted by LogOn:
   a. Perform a visual check for leaks around the engine.

      Correct any problems before proceeding with the test.
   b. Check the engine fluid levels and top up as required:
      - Engine oil level
      - Engine coolant level
      - DEF level
   c. Confirm that there are no active engine fault codes.

      If there are any active engine fault codes, correct them before proceeding with the test.
   d. Confirm that the battery terminals are clean and tight and that the battery voltage is above 23 V.
   e. Confirm that the engine coolant temperature is above 50°C (122°F).

      If the engine coolant temperature is below 50°C (122°F), perform machine functions until the engine is sufficiently warmed up.

   When the preliminary checks are complete, the test will run automatically.
3. When prompted by LogOn, turn the ignition key to the START position and hold it there to crank the engine.
4. When prompted by LogOn, release the ignition key.
5. When the test is complete, the test results will display on the screen.

   Select the **Download** button on the results page to save the test results to your device.

Compression Test Assessment

COMPRESSION TEST

ENGINE CYLINDERS

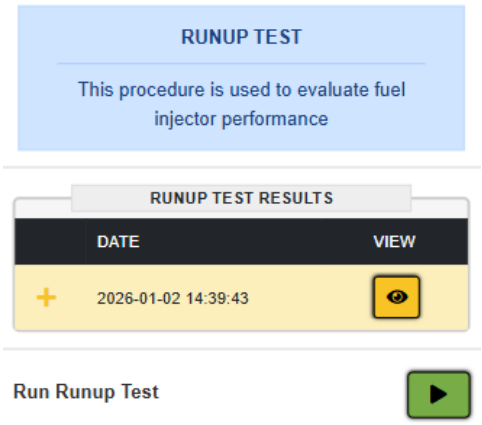
PARAMETERS	1	2	3	4	5	6
t_1 (us)	15790	15639	15747	15747	15600	15644
t_2 (us)	12840	12860	12802	12722	12850	12725
n_1 (rpm)	190	191.8	190.5	190.5	192.3	191.8
n_2 (rpm)	233.6	233.3	234.3	235.8	233.5	235.8
dn (rpm)	43.7	41.5	43.8	45.3	41.2	44
ω_1 (rad/s)	19.9	20.1	20	20	20.1	20.1
ω_2 (rad/s)	24.5	24.4	24.5	24.7	24.4	24.7
α (rad/s^2)	96.8	92.3	97.5	101.1	91.7	98.5
α_{rel} (ratio)	99.7	95	100.3	104.1	94.4	101.4
α_{dev} (%)	-0.3	-5.0	+0.3	+4.1	-5.6	+1.4

hover/click for parameter description

Parameter	Description	Units
t_1	Time needed for 18° crankshaft rotation at TDC (compression time)	µs
t_2	Time needed for 18° crankshaft rotation after TDC (expansion time)	µs
n_1	Crankshaft compression speed	rpm
n_2	Crankshaft expansion speed	rpm
dn	Engine speed amplitude	rpm
ω_1	Compression angular speed	rad/s
ω_2	Expansion angular speed	rad/s
α	Angular acceleration	rad/s^2
α_{rel}	Angular acceleration relative to median	ratio
α_{dev}	Percent deviation of angular acceleration relative to median	%

- There should be similar angular acceleration (α) values between all cylinders. A low angular acceleration indicates low compression on the relevant cylinder.
- This crankshaft acceleration test can detect low compression in up to 1 cylinder in a 4-cylinder engine, and up to 2 cylinders in a 6-cylinder engine. If more than 1 or 2 cylinders indicate low angular acceleration values, perform a full compression test on the engine to get more information.

Runup Test



The runup test checks the fuel injection system for proper operation and performance.

To perform a runup test using LogOn:

1. Select the ▶ **Run Runup Test** button.
2. Complete the preliminary checks as prompted by LogOn:
   a. Perform a visual check for leaks around the engine.

      Correct any problems before proceeding with the test.
   b. Check the engine fluid levels and top up as required:
      - Engine oil level
      - Engine coolant level
      - DEF level
   c. Confirm that there are no active engine fault codes.

      If there are any active engine fault codes, correct them before proceeding with the test.
   d. Confirm that the battery terminals are clean and tight and that the battery voltage is above 23 V.
   e. Confirm that the engine coolant temperature is above 50°C (122°F).

      If the engine coolant temperature is below 50°C (122°F), perform machine functions until the engine is sufficiently warmed up.
   f. Confirm that the pilot system is turned OFF.
   g. Confirm that the HVAC system is turned OFF.
   h. Confirm that there is no biodiesel in the fuel system.
   i. START the engine.
3. When prompted by LogOn, select **Yes** to start the Runup test.
   - Do not STOP the engine during the test.
   - Do not adjust the engine speed during the test.
   - Do not touch the brake pedal during the test.

   The engine may experience fluctuations during the test. This is expected and normal behaviour. Allow the test to finish without interruptions.
4. When the test is complete, the test results will display on the screen.

   Select the **Download** button on the results page to save the test results to your device.

Runup Test Assessment

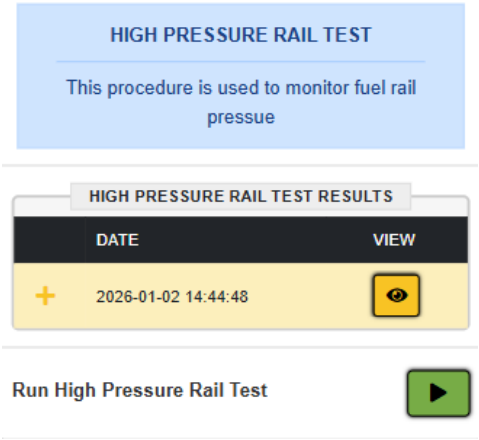
RUNUP TEST

PARAMETERS	ENGINE CYLINDERS ALL CYLINDERS	1	2	3	4	5
t_a (us)	439555	466546	467926	475886	468446	4711
RPM_l (n/s)	853	837	840	826	847	84
RPM_h (n/s)	1334	1241	1238	1217	1228	121
t_d (us)	1247978	1047549	969047	895893	897276	1045
RPM_{hi} (n/s)	1324	1229	1226	1207	1213	121
RPM_{lo} (n/s)	797	795	794	800	792	78
Rd (n/s^2)	422.3	414.3	445.8	454.3	469.2	413
R (n/s^2)	1094.3	865.9	850.6	821.6	813.3	795
RTot (n/s^2)	1516.6	1280.2	1296.4	1275.9	1282.5	120
Rd_{dev} (%)	1.8	-3.7	3.7	5.6	9.1	-3.
Dev (%)	-15.7	-0.1	-1.4	0.2	-0.3	5.
Out (%)	103.5	99.3	92.5	101.1	98.3	129
MAcc (Nm)	444.4	351.7	345.4	333.7	330.3	323
MDec (Nm)	171.5	168.2	181	184.5	190.5	167
MTot (Nm)	615.9	519.9	526.5	518.2	520.8	491
Out (Nm)	615.9	99.1	92.5	100.8	98.1	127

hover/click for parameter description

Parameter	Description	Units
t_a	Run up time	µs
RPM_l	Engine speed at the beginning of acceleration	n/s
RPM_h	Engine speed at the end of acceleration	µs
t_d	Run down time	µs
RPM_{hi}	Engine speed at the beginning of deceleration	n/s
RPM_{lo}	Engine speed at the end of deceleration	n/s
Rd	Deceleration	n/s^2
R	Acceleration	n/s^2
RTot	Summation of acceleration and deceleration	n/s^2
Rd_{dev}	Deviation with median of deceleration	%
Dev	Deviation of cylinder from the median (percentage)	%
Out	Cylinder output compared to median value	%
MAcc	Acceleration torque	N-m
MDec	Deceleration torque	N-m
MTot	Total torque	N-m
Out	Cylinder torque output	N-m

High Pressure Fuel Rail Test



The high pressure rail test checks the fuel rail system for proper operation and performance, including the following:

- Fuel rail pump performance
- Fuel rail system leakage
- Fuel pressure regulator (MPROP) tightness variation
- Fuel pressure control instability

To perform a high pressure fuel rail test using LogOn:

1. Select the ▶ **Run High Pressure Rail Test** button.
2. Complete the preliminary checks as prompted by LogOn:
   a. Perform a visual check for leaks around the engine.

      Correct any problems before proceeding with the test.
   b. Check the engine fluid levels and top up as required:
      - Engine oil level
      - Engine coolant level
      - DEF level
   c. Confirm that there are no active engine fault codes.

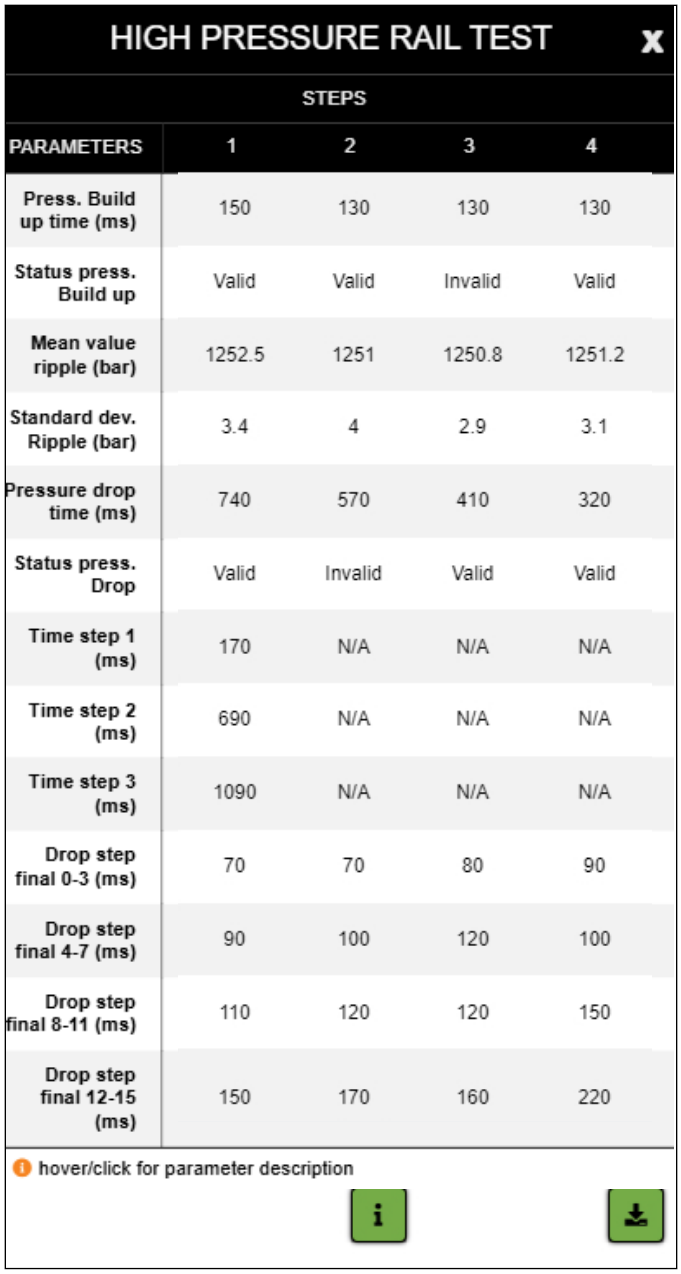
      If there are any active engine fault codes, correct them before proceeding with the test.
   d. Confirm that the battery terminals are clean and tight and that the battery voltage is above 23 V.
   e. Confirm that the engine coolant temperature is above 50°C (122°F).

      If the engine coolant temperature is below 50°C (122°F), perform machine functions until the engine is sufficiently warmed up.
   f. Confirm that the pilot system is turned OFF.
   g. Confirm that the HVAC system is turned OFF.
   h. Confirm that there is no biodiesel in the fuel system.
   i. START the engine.
3. When prompted by LogOn, select **Yes** to start the high pressure fuel rail test.
   - Do not STOP the engine during the test.
   - Do not adjust the engine speed during the test.
   - Do not touch the brake pedal during the test.

   The engine may experience fluctuations during the test. This is expected and normal behaviour. Allow the test to finish without interruptions.
4. When the test is complete, the test results will display on the screen.

   Select the **Download** button on the results page to save the test results to your device.

High Pressure Fuel Rail Test Assessment

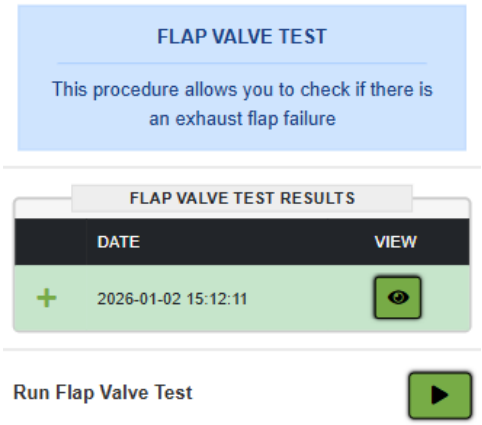


HIGH PRESSURE RAIL TEST

PARAMETERS	STEPS 1	2	3	4
Press. Build up time (ms)	150	130	130	130
Status press. Build up	Valid	Valid	Invalid	Valid
Mean value ripple (bar)	1252.5	1251	1250.8	1251.2
Standard dev. Ripple (bar)	3.4	4	2.9	3.1
Pressure drop time (ms)	740	570	410	320
Status press. Drop	Valid	Invalid	Valid	Valid
Time step 1 (ms)	170	N/A	N/A	N/A
Time step 2 (ms)	690	N/A	N/A	N/A
Time step 3 (ms)	1090	N/A	N/A	N/A
Drop step final 0-3 (ms)	70	70	80	90
Drop step final 4-7 (ms)	90	100	120	100
Drop step final 8-11 (ms)	110	120	120	150
Drop step final 12-15 (ms)	150	170	160	220

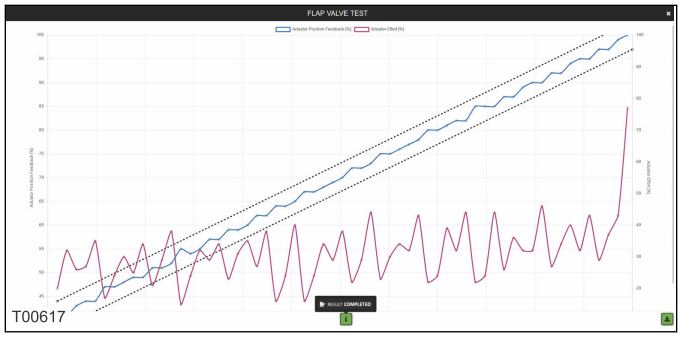
Parameter	Description	Units
Pressure Build Up Time	Time for fuel rail pressure to rise	ms
Pressure Build Up Status	Status of fuel rail pressure build up test	-
Mean Value Ripple	Average fuel rail pressure during ripple test	bar
Standard Deviation Ripple	Standard deviation of fuel rail pressure during ripple test	bar
Pressure Drop Time	Time for fuel rail pressure to fall	ms
Pressure Drop Status	Status of fuel rail pressure drop test	-
Time Step 1	Time for pressure to drop from 1250 to 1100 bar	ms
Time Step 2	Time for pressure to drop from 1100 to 800 bar	ms
Time Step 3	Time for pressure to drop from 800 to 600 bar	ms
Drop Step Final 0–3	Pressure drop time for 10 bar steps from 1250 to 1210 bar	ms
Drop Step Final 4–7	Pressure drop time for 10 bar steps from 1210 to 1170 bar	ms
Drop Step Final 8–11	Pressure drop time for 10 bar steps from 1170 to 1130 bar	ms
Drop Step Final 12–15	Pressure drop time for 10 bar steps from 1130 to 1090 bar	ms

Exhaust Flap Valve Test

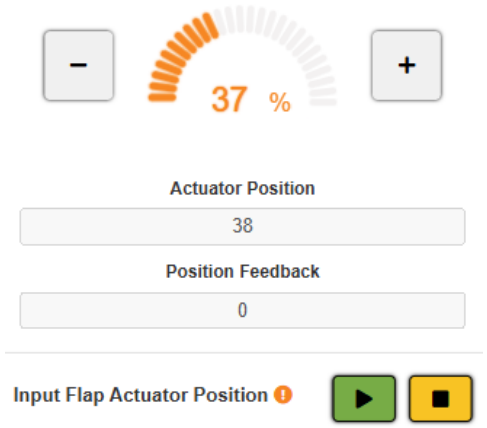


The exhaust flap valve test automatically runs a sequence of position requests to the exhaust flap actuator and compares the requested positions to the actual positions.

The results graph shows the actuator position feedback (%) and actuator effort (%) compared to the requested position (%).



Exhaust Flap Actuator Position



The exhaust flap actuator position tool allows the user to send a request for a specific exhaust flap position and immediately get feedback on the responding actuator position.

To use the exhaust flap actuator position tool:

1. Select the ▶ **Input Flap Actuator Position Test** button.
2. Select the + **Plus** and − **Minus** buttons to set the desired exhaust flap position (%).
3. Select the ▶ **Input Flap Actuator Position** to send the request.

   The actuator position and position feedback will display after the request is received.
4. If desired, select the + **Plus** and − **Minus** buttons to set a different exhaust flap position and select the ▶ **Input Flap Actuator Position** to send the new request.
5. Select the ■ **Stop** button to stop the test.

AFTERTREATMENT SYSTEM TESTS

Document ID: 176191 | Last Modified Date: Mar 12, 2026

LogOn urea dosing tests guide technicians through the test procedures. Always follow test instructions closely to prevent machine damage and inaccurate test results.

Refer to the machine's OPERATOR'S MANUAL and SERVICE MANUAL for information on component locations and machine configuration.

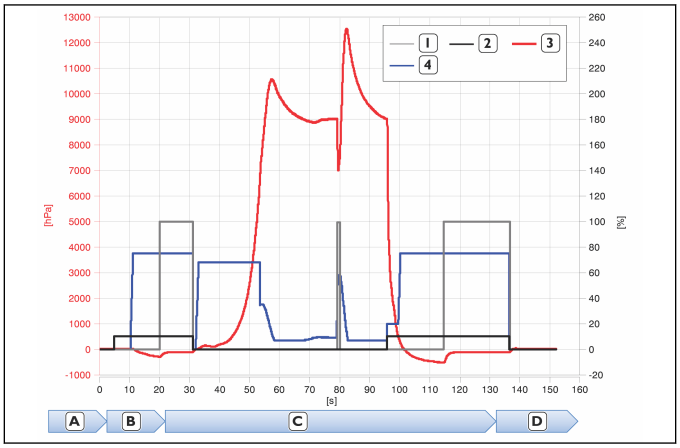
Test Start Conditions

The following conditions are required to run a diagnostic dosing system test:

- There are no active diagnostic faults
- DEF level is not low
- Battery voltage is not low
- Engine is not running

Urea Dosing System Test (UDST)

The Urea Dosing System Test (UDST) is a test procedure which can be performed using the PT-Box tool or LogOn, which allows the correct installation and operation of the DEF dosing components to be checked.



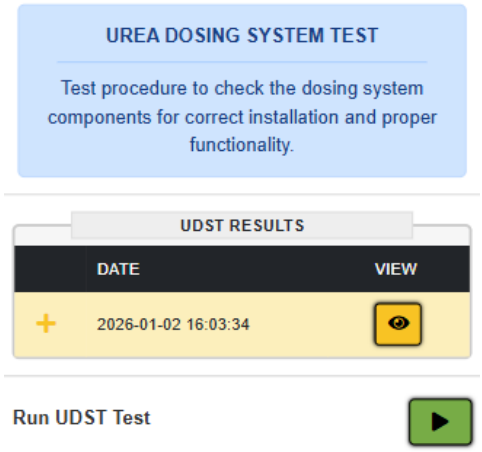
1	DC Dosing Module
2	DC Supply Module
3	Pressure
4	Reverting Valve Status

Main Stages of the UDST Procedure

Stage		Description
A	Pressure Reduction	Brief emptying stage to bring the system to a specific start phase of the procedure.
B	Pressure Filling and Increase	Filling the system following an increase in pressure until the nominal threshold 9 bar (130 psi) is reached.
C	Stabilizing Pressure and Injection	Stabilizing phase of the pressure following a short DEF injection.
D	Emptying	Emptying phase of the lines, the dosing module, and the supply module.

To perform a UDST using LogOn:

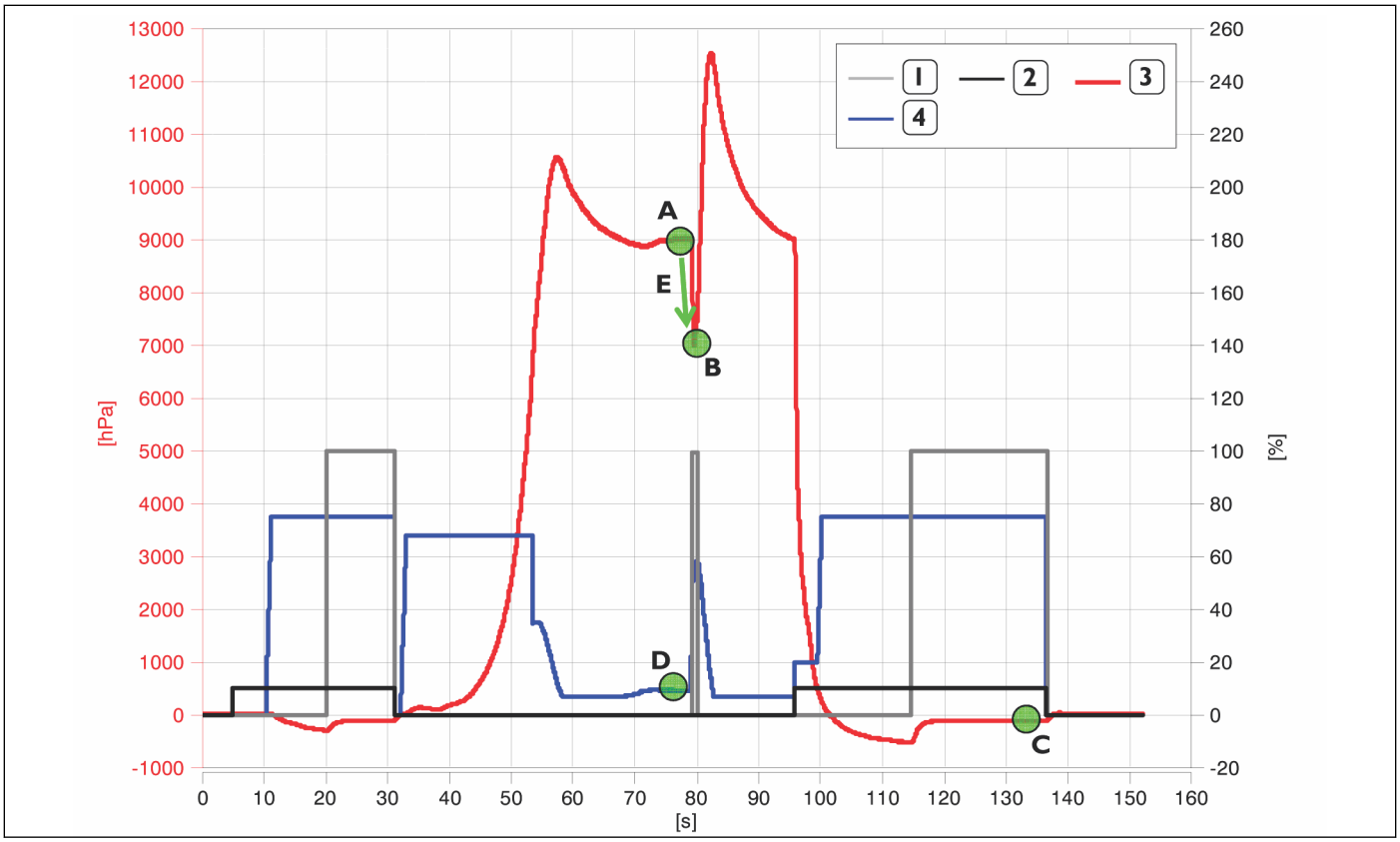
> **NOTE**
> When performing multiple UDSTs with LogOn, the ignition key must be turned to STOP and then to RUN between each test.



1. Navigate to **Diagnostics–Engine Diagnostics–UDST Test**.
2. Select the **Run UDST Test** button.
3. Complete the preliminary checks as prompted by LogOn:
   a. Perform a visual check for excessive DEF leakage and disconnected or broken piping.
      Correct any problems before proceeding with the test.

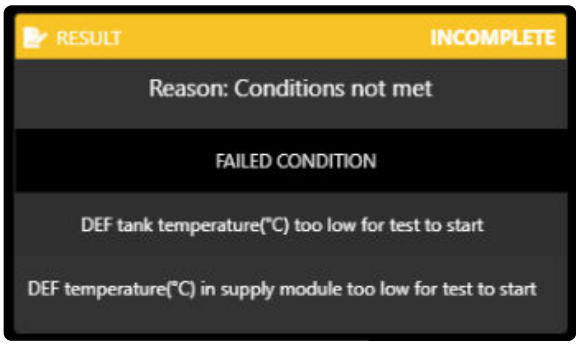
   When the preliminary checks are complete, the test will run automatically.
4. When the test is complete, the test results graph will display on the screen.
   Select the **Download** button on the results page to save the test results to your device.

UDST Assessment



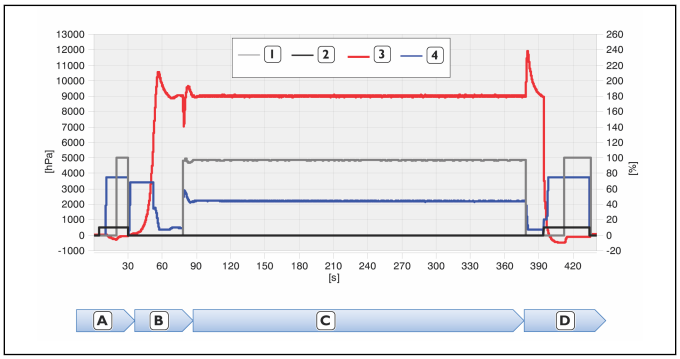
	Type	Lower Limit	Upper Limit (Tier 4f)	Upper Limit (Stage V)
A	Operating Pressure	8500 mbar	9500 mbar	10000 mbar
B	Pressure on Injection	No limit applied; data used to calculate the drop in pressure during injection.		
C	Pressure on Emptying	−1000 mbar	0 mbar	0 mbar
D	Pump Working Cycle	4%	24%	32%
E	Pressure Drop During Injection	250 mbar	- mbar	- mbar

If the UDST does not pass, check the test results to get an explanation for the failure.



Urea Dosing Pump Check (UDPC)

The Urea Dosing Pump Check (UDPC) is a test procedure which can be performed using a the PT-Box tool or LogOn, allowing the maximum quantity of DEF delivered by the DEF dosing module in a given period of time to be checked. The procedure involves disassembling the dosing module and checking the quantity injected by means of a graded container.



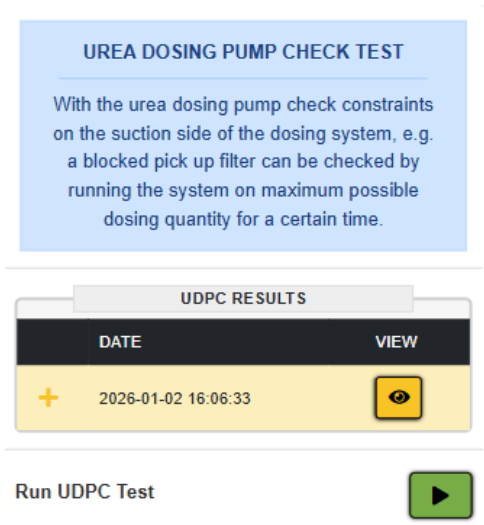
1	DC Dosing Module
2	DC Supply Module
3	Pressure
4	Reverting Valve Status

Main Stages of the UDPC Procedure

Stage		Description
A	Pressure Reduction	Brief emptying stage to bring the system to a specific start phase of the procedure.
B	Pressure Filling and Increase	Filling the system following an increase in pressure until the nominal threshold 9 bar (130 psi) is reached.
C	Stabilizing Pressure and Injection	Stabilizing phase of the pressure following a short DEF injection.
D	Emptying	Emptying phase of the lines, the dosing module, and the supply module.

To perform a UDPC using LogOn:

> **NOTE**
> The DEF dosing module must be removed during this procedure.



1. Navigate to **Diagnostics–Engine Diagnostics–UDPC Test**.
2. Select the **Run UDPC Test** button.
3. Complete the preliminary checks as prompted by LogOn:
   a. Perform a visual check for excessive DEF leakage and disconnected or broken piping.
      Correct any problems before proceeding with the test.
   b. Carefully remove the dosing module bolts and remove the dosing module from the machine.
   c. Inspect the dosing module flange and nozzle tip for urea deposits.
      If any urea deposits are found, rinse the nozzle tip under warm water until it is clean of deposits and crystals.
   d. Mount the dosing module into a measuring cup to collect the DEF that will be injected during the test.

   When the preliminary checks are complete, the test will run automatically.
4. When the test is complete, the test results graph will display on the screen.
   Select the **Download** button on the results page to save the test results to your device.

UDPC Assessment

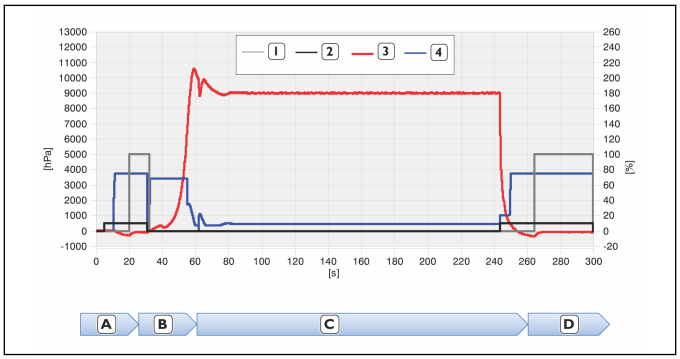
Test	Flow Rate	Amount Injected	Test Duration	Criteria to Pass
UDPC 7.2 kg/h	7000 g/h	583.3 g	300 s	Stable pressure during the entire test.
UDPC 12 kg/h	12000 g/h	1000 g	300 s	Stable pressure during the entire test.
UDPC 15 kg/h	15000 g/h	1200 g	300 s	Stable pressure during the entire test.

If the UDPC does not pass, check for the following possible causes:

- DEF supply module health
- DEF dosing module filter
- DEF supply module inlet conditions
- DEF supply module outlet conditions

Urea Dosing Leakage Check (UDLC)

The Urea Dosing Leakage Check (UDLC) is a test procedure which can be performed using the PT-Box tool or LogOn, allowing for any DEF leaks to be identified by pressurizing the system for a specific period of time. During the test, there is no injection of DEF.

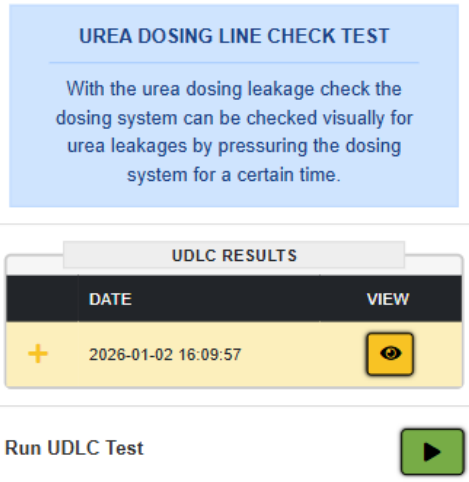


1	DC Dosing Module
2	DC Supply Module
3	Pressure
4	Reverting Valve Status

Main Stages of the UDLC Procedure

Stage		Description
A	Pressure Reduction	Brief emptying stage to bring the system to a specific start phase of the procedure.
B	Pressure Filling and Increase	Filling the system following an increase in pressure until the nominal threshold 9 bar (130 psi) is reached.
C	Stabilizing Pressure and Injection	Stabilizing phase of the pressure following a short DEF injection.
D	Emptying	Emptying phase of the lines, the dosing module, and the supply module.

To perform a UDLC using LogOn:



1. Navigate to **Diagnostics–Engine Diagnostics–UDLC Test**.
2. Select the **Run UDLC Test** button.
3. Complete the preliminary checks as prompted by LogOn:
   a. Perform a visual check for excessive DEF leakage and disconnected or broken piping.
      Correct any problems before proceeding with the test.

   When the preliminary checks are complete, the test will run automatically.
4. When the test is complete, the test results graph will display on the screen.

   Select the **Download** button on the results page to save the test results to your device.

UDLC Assessment

Test	Flow Rate	Amount Injected	Test Duration	Criteria to Pass
UDLC	0 g/h	0 g	180 s	No DEF leak

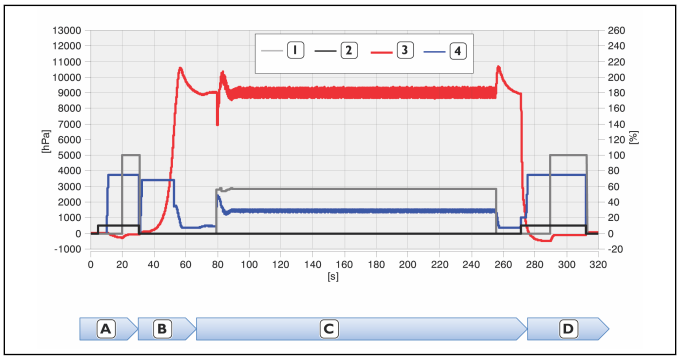
If the UDLC does not pass, check for the following possible causes:

- System leakage
- Faulty hose connections
- Failing O-rings
- Air ingression

Urea Dosing Valve Check (UDVC)

The Urea Dosing Valve Check (UDVC) is a test procedure which can be performed using the PT-Box tool or LogOn, allowing the quantity of DEF injected by the DEF dosing module to be checked. The procedure involves disassembling the dosing module and checking the quantity injected by means of a graded container.

During the procedure, a flow rate of 7000 g/h and an injection quantity of 350 g is considered. The quantity of DEF injected must be within ± 10% of the nominal value.



1	DC Dosing Module
2	DC Supply Module
3	Pressure
4	Reverting Valve Status

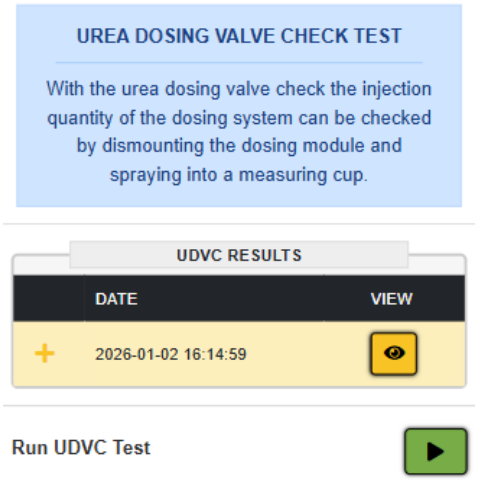
Main Stages of the UDVC Procedure

Stage		Description
A	Pressure Reduction	Brief emptying stage to bring the system to a specific start phase of the procedure.
B	Pressure Filling and Increase	Filling the system following an increase in pressure until the nominal threshold 9 bar (130 psi) is reached.
C	Stabilizing Pressure and Injection	Stabilizing phase of the pressure following a short DEF injection.
D	Emptying	Emptying phase of the lines, the dosing module, and the supply module.

To perform a UDVC using LogOn:

> **NOTE**
> The DEF dosing module must be removed during this procedure.

> **NOTE**
> This procedure requires a measuring cup.



1. Navigate to **Diagnostics–Engine Diagnostics–UDVC Test**.
2. Select the **Run UDVC Test** button.
3. Complete the preliminary checks as prompted by LogOn:
   a. Perform a visual check for excessive DEF leakage and disconnected or broken piping.
      Correct any problems before proceeding with the test.
   b. Carefully remove the dosing module bolts and remove the dosing module from the machine.
   c. Inspect the dosing module flange and nozzle tip for urea deposits.
      If any urea deposits are found, rinse the nozzle tip under warm water until it is clean of deposits and crystals.
   d. Mount the dosing module into a measuring cup to collect the DEF that will be injected during the test.

   When the preliminary checks are complete, the test will run automatically.
4. When prompted by LogOn, measure the total volume of DEF collected in the measuring cup and enter the amount in millilitres.

5. Install a new gasket on the dosing module.
6. Install the dosing module and dosing module bolts on the machine.
7. When the test is complete, the test results graph will display on the screen.

   Select the **Download** button on the results page to save the test results to your device.

UDVC Assessment

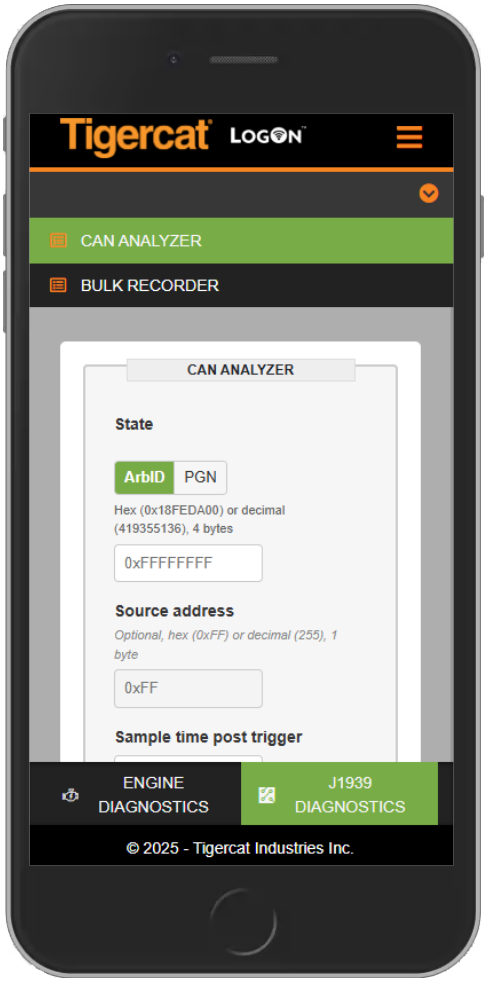
Test	Flow Rate	Amount Injected	Test Duration	Lower Limit of Injected Amount	Upper Limit of Injected Amount
UDVC	7000 g/h	350 g 321 mL	180 s	315 g 289 mL	385 g 353 mL

If the UDVC does not pass, check for the following possible causes:

- DEF dosing module health
- DEF dosing module injector blockages
- DEF pressure line restriction

J1939 DIAGNOSTICS

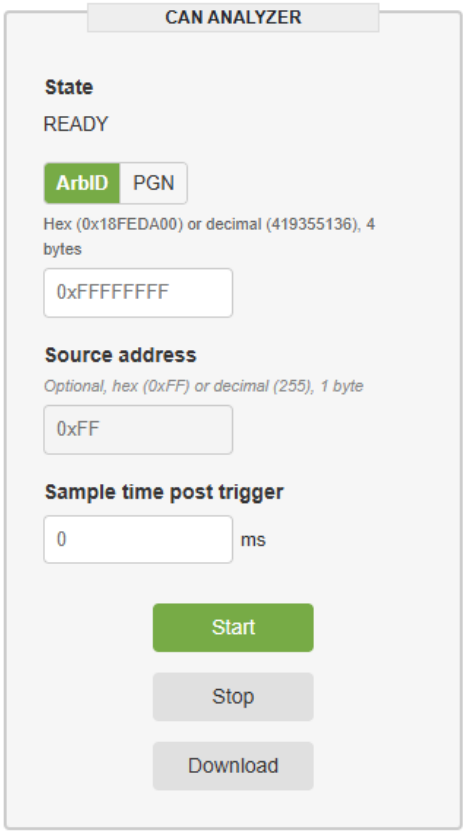
Document ID: 176192 | Last Modified Date: Mar 12, 2026



J1939 Diagnostics records CAN bus traffic (messages) from any CAN devices on the machine (such as the IQAN program, engine ECU, attachment controller, CAN sensors or actuators, or tire pressure monitoring system). CAN recordings contain message data and relative timing. After the CAN messages are recorded, they can be downloaded to the user's device to aid in diagnosing integration issues with equipment on the machine. The CAN recordings contain raw data only and must be interpreted by the user.

Two types of recording methods are supported. CAN Analyzer records data based on a specific trigger set by the user. Bulk Recorder allows for general data recording if there is no specific trigger to set.

CAN ANALYZER



The CAN Analyzer records data based on a specific CAN Arbitration ID or CAN PGN trigger. The analyzer captures data before and after the PGN is sent on the CAN bus. The timing recorded in the file is relative when the trigger is detected, which has a relative time of 0 ms.

To record CAN data using CAN Analyzer:

1. Select a **Trigger** for the CAN Analyzer to look for.

   Either CAN Arbitration ID or CAN PGN can be used as the trigger condition. When the trigger is detected, the CAN Analyzer will continue to record for the post-trigger sample time and then stop.

2. For PGN triggers, optionally select a **Source Address**.

   If a source address is provided, the CAN Analyzer will trigger when the specified PGN is first sent by the specified device address. If no source address is provided, the CAN Analyzer will trigger when the specified PGN is first sent on the CAN bus.

3. Select a **Sample Time Post Trigger** (ms).

   The sample time determines for how long the analyzer continues to record data after the trigger has been detected.

4. Select **Start**.

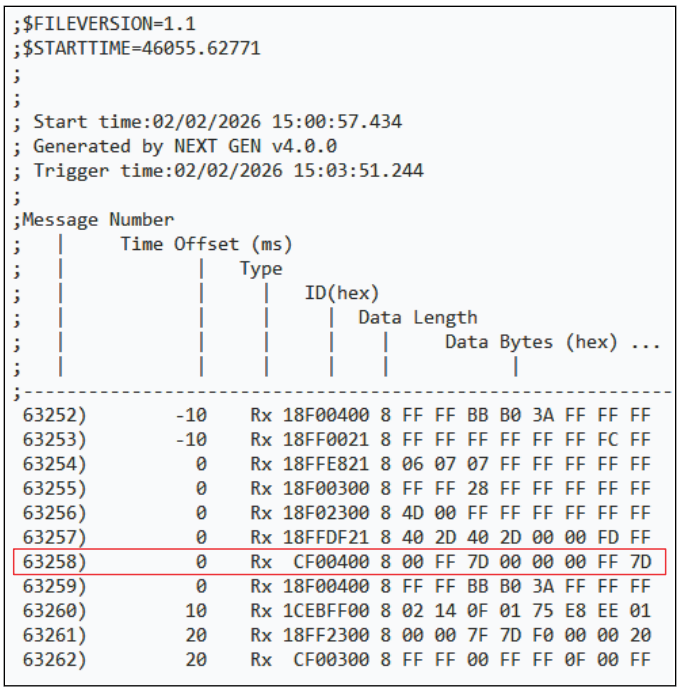
   The CAN Analyzer state will change to Armed (the analyzer is capturing data and actively looking for the user-provided trigger condition).

5. If the trigger condition is detected, the CAN Analyzer state will change to Triggered (the analyzer has detected the trigger condition and will continue to record CAN data for the post-trigger sample time). When the sample time has elapsed, the recording will stop.

   If the trigger condition is not detected, select **Stop** to manually trigger the recording (the analyzer will continue to record CAN data for the post-trigger sample time). When the sample time has elapsed, the recording will stop.

6. Select **Download** to download the recording to your device.

CAN Analyzer Assessment



```
;$FILEVERSION=1.1
;$STARTTIME=46055.62771
;
;
; Start time:02/02/2026 15:00:57.434
; Generated by NEXT GEN v4.0.0
; Trigger time:02/02/2026 15:03:51.244
;
;Message Number
;   |      Time Offset (ms)
;   |             |   Type
;   |             |     |   ID(hex)
;   |             |     |     |  Data Length
;   |             |     |     |    |     Data Bytes (hex) ...
;   |             |     |     |    |           |
;-----------------------------------------------------------------
 63252)        -10    Rx 18F00400 8 FF FF BB B0 3A FF FF FF
 63253)        -10    Rx 18FF0021 8 FF FF FF FF FF FF FC FF
 63254)          0    Rx 18FFE821 8 06 07 07 FF FF FF FF FF
 63255)          0    Rx 18F00300 8 FF FF 28 FF FF FF FF FF
 63256)          0    Rx 18F02300 8 4D 00 FF FF FF FF FF FF
 63257)          0    Rx 18FFDF21 8 40 2D 40 2D 00 00 FD FF
 63258)          0    Rx  CF00400 8 00 FF 7D 00 00 00 FF 7D
 63259)          0    Rx 18F00400 8 FF FF BB B0 3A FF FF FF
 63260)         10    Rx 1CEBFF00 8 02 14 0F 01 75 E8 EE 01
 63261)         20    Rx 18FF2300 8 00 00 7F 7D F0 00 00 20
 63262)         20    Rx  CF00300 8 FF FF 00 FF FF 0F 00 FF
```

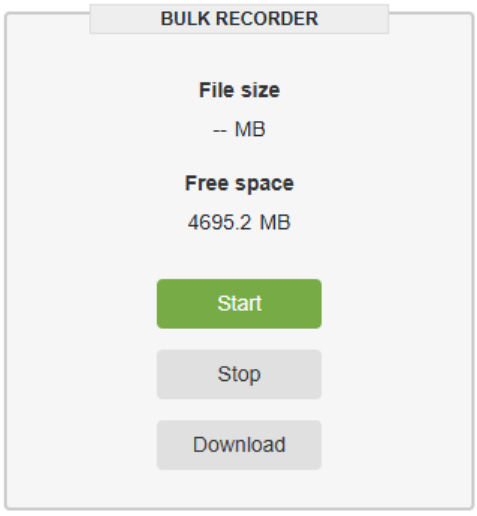
- The trigger is recorded at 0 ms. Any CAN messages which were sent at the same time as the trigger have a time offset of 0 ms.

  If the CAN Analyzer was triggered manually by selecting the **Stop** button, the trigger time (0 ms) corresponds with when the button was clicked. There may be no messages that were sent at the same time (0 ms).

- CAN messages sent before the trigger show a negative relative time (−52 ms), indicating that they were sent that many milliseconds before the trigger occurred.

- CAN messages sent after the trigger show a positive relative time (20 ms), indicating that they were sent that many milliseconds after the trigger occurred.

BULK RECORDER



The Bulk Recorder records all CAN bus traffic for the duration of the recording, as long as there is sufficient space on the telematics module. Select the **Start** button to start recording. Select the **Stop** button to stop recording, then select the **Download** button to download a text file with the recorded data.

APPENDIX A. TELEMATICS SERVICES AGREEMENT

THIS IS A LEGAL AGREEMENT BETWEEN YOU AND TIGERCAT INTERNATIONAL INC. AND ITS AFFILIATES (COLLECTIVELY, **"TIGERCAT," "WE," "US"** or **"OUR"**) STATING THE TERMS OF USE THAT GOVERN YOUR USE OF THE TIGERCAT TELEMATICS SERVICES (THE **"SERVICES"** OR **"TELEMATICS SERVICES"**). THE SERVICES INCLUDE ONLY THOSE SERVICES PROVIDED DIRECTLY TO YOU BY TIGERCAT AND ITS SERVICE PROVIDERS HEREUNDER AND EXPRESSLY EXCLUDE ANY THIRD PARTY SERVICES PROVIDED BY CELLULAR, WIRELESS AND SATELLITE PROVIDERS. A DETAILED DESCRIPTION OF THE SERVICES CAN BE FOUND ON **<https://telematics.tigercat.com>** (THE **"SITE"**).

This Telematics Services Agreement (**"Agreement"**), including the Privacy Statement which is hereby incorporated into this Agreement by reference, sets forth the legally binding terms for Your use of the Services. Please review the Privacy Statement before You (the **"Customer"**) complete the account registration process and/or attempt to access or use the Services. A copy of the Privacy Statement is attached hereto as **Telematics Privacy Statement**.

If You sign up for additional features and services that are governed by additional terms and conditions, We will inform You accordingly when You sign up for these additional features and services. Unless the additional terms explicitly stipulate the contrary, they are hereby incorporated into this Agreement by reference.

PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THE SERVICES OR PARTS THEREOF. BY CHECKING OFF THE ACKNOWLEDGEMENT CONTAINED ON YOUR WARRANTY REGISTRATION AND DELIVERY REPORT OR OTHERWISE BY ACCESSING AND/OR USING THE SERVICES YOU AGREE TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ENTERING INTO THIS AGREEMENT ON BEHALF OF A COMPANY OR OTHER LEGAL ENTITY, YOU REPRESENT THAT YOU HAVE THE AUTHORITY TO LEGALLY BIND SUCH ENTITY AND ITS AFFILIATES TO THESE TERMS AND CONDITIONS, IN WHICH CASE THE TERMS “YOU” OR “YOUR” SHALL REFER TO SUCH ENTITY AND ITS AFFILIATES. IF YOU DO NOT HAVE SUCH AUTHORITY, OR IF YOU DO NOT AGREE WITH THESE TERMS AND CONDITIONS, YOU MUST NOT ACCEPT THIS AGREEMENT AND MAY NOT USE THE SERVICES.

1. DEFINITIONS

“Account” means having access to the system by submitting Account Information to register to become a Customer.

“Account Information” means information that You provide to Us when setting up your Account and using the Services, including but not limited to, Your name, a password, phone number, address and/or other contact information, and/or other biographical information.

“Affiliate” means any entity which directly or indirectly controls, is controlled by, or is under common control with the subject entity. "Control," for purposes of this definition, means direct or indirect ownership or control of more than 50% of the voting interests of the subject entity.

“Content” or **“TIGERCAT Content”** means all content provided by Us or Our Service Providers, including but not limited to all programming, text, software (in source and object code form), information, visual, oral or other digital material, works of authorship, text, files, images, captions, and all other content of any description embedded in the Services, including all Intellectual Property Rights.

“Data” or **“Telematics Data”** means any data, information and material in whatever form or medium: (i) provided or transmitted by Customer in the course of utilizing the Services; and/or (ii) created as a result of Customer utilizing the Services.

“Intellectual Property Rights” means all patents, rights to inventions, utility models, copyright and related rights, trade-marks, service marks, trade, business and domain names, rights in trade dress or get-up, rights in goodwill or to sue for passing off, unfair competition rights, rights in designs, rights in computer software, database rights, topography rights, moral rights, rights in confidential information (including know-how and trade secrets) and any other intellectual property rights, in each case whether registered or unregistered, and all similar or equivalent rights or forms of protection in any part of the world.

“Order Document” means any purchase order or quote, invoice, order confirmation, bill of lading or other document issued by or on behalf of TIGERCAT and/or its Service Providers (as hereinafter defined) that refers to, accompanies or to which are attached this Agreement, including but not limited to any applicable Warranty Registration and Delivery Report provided by Us or Our Service Providers.

“Personal Information” means information found on Your Account profile and/or provided or transmitted in the course of utilizing the Services that is personally identifiable.

2. YOUR ACCOUNT

2.1 Account. In order to use the Services (and to become a Customer), You will be asked to provide Us with Account Information in order to create an Account.

2.2 Eligibility. By using the Services, You represent and warrant that: (a) all registration information You submit is truthful and accurate; (b) You will maintain the accuracy of such information; (c) You are eighteen (18) years of age or older upon registration; and (d) Your use of the Services does not violate any applicable law or regulation, or any other obligation (including contractual obligation) You might have towards third parties.

2.3 Password. When You sign up to become a Customer, You will also be asked to choose a password for Your Account. You are entirely responsible for maintaining the confidentiality of Your password, and You may not transfer Your password or Account to any other person. You agree not to resell your Account to any third party, or use the Account or password of another Customer at any time. You agree to notify Us immediately if You suspect any unauthorized use of Your Account or access to Your password. TIGERCAT reserves the right to require You to alter Your password if TIGERCAT believes Your password is no longer secure. You are solely liable for any and all use of Your Account.

2.4 Account Ownership. As a Customer, You agree to provide certain rights to TIGERCAT and third parties You authorize to use the Your Account Information in order to provide the Services and improve the Services. You also give permission to TIGERCAT to access, gather and use Your Account Information, including all data and information related thereto, including but not limited to statistical information by logging IP addresses, browser type, operating system, referring/exit page, and date/time stamp for various purposes, including but not limited to research, advertising, Customer experience testing and due diligence.

2.5 Access to Services. You may permit Your employees, agents and independent contractors (each a **"Customer Party"**) to use the Services provided that You are responsible for Your Customer Parties’ compliance with this Agreement. You are responsible for identifying and authenticating all Customer Parties, for approving access by such Customer Parties to the Services, for controlling against unauthorized access by Customer Parties, and for maintaining the confidentiality of all Data, Personal Information and passwords. You further hereby acknowledge that You shall remain liable for all acts and omissions of Your Customer Parties. YOU ARE RESPONSIBLE FOR ENSURING THAT ALL OF YOUR CUSTOMER PARTIES HAVE APPROVED THE COLLECTION AND USE OF ALL CUSTOMER PARTY DATA, WHICH MAY CONTAIN CUSTOMER PARTY PERSONAL INFORMATION, IN ACCORDANCE WITH THIS AGREEMENT. THIS DATA MAY INCLUDE HIGHLY SENSITIVE INFORMATION THAT MUST BE PROTECTED. YOU HEREBY ACKNOWLEDGE THAT EXPOSING ANY SUCH DATA TO UNAUTHORIZED USERS MAY CAUSE IRREPARABLE HARM FOR WHICH DAMAGES MAY NOT BE AN ADEQUATE REMEDY AND THAT, IN ADDITION TO ANY OTHER REMEDIES THAT MAY BE AVAILABLE, IN LAW OR IN EQUITY, THE AGGRIEVED PARTY SHALL BE ENTITLED TO SEEK INJUNCTIVE RELIEF TO RESTRAIN ANY SUCH THREATENED OR ACTUAL DISCLOSURE.

2.6 Miscellaneous. You will not attempt to impersonate another Customer or person, including any of Our employees.

3. THE TELEMATICS SYSTEM

3.1 Rights and Restrictions. For the duration of the Term and subject to Your payment obligations, and except as otherwise set forth in this Agreement or any applicable Order Document, TIGERCAT hereby grants to You the non-exclusive, non-assignable, royalty free, worldwide limited right to access and use the Services that You ordered, including anything developed by TIGERCAT and delivered to You as part of the Services, solely for Your internal business operations and subject to the terms of this Agreement and the Order Document. You agree to provide TIGERCAT with all information, access and cooperation reasonably necessary to enable TIGERCAT to provide the Services and You will perform the actions identified in this Agreement and any applicable Order Document as Your responsibilities. You do not acquire under this Agreement any right or license to use the Services in excess of the scope and/or duration of the Services stated in this Agreement or the applicable Order Document. Upon expiration of the Term, or termination of this Agreement or the applicable Order Document, Your right to access and use the Services will terminate.

3.2 Modifications to the Services and Customer Documentation. TIGERCAT may make changes or updates to the Services (such as infrastructure, security, technical configurations, application features, etc.) during the Term, including to reflect changes in technology, industry practices, patterns of system use, and availability of third party content. Any such changes will not result in a material reduction in the level of performance or availability of the applicable Services provided to You for the duration of the Term.

3.3 Acknowledgement.

YOU ACKNOWLEDGE THAT YOUR TIGERCAT EQUIPMENT IS EQUIPPED WITH A TELEMATICS SYSTEM, WHICH CONSISTS OF HARDWARE AND SOFTWARE COMPONENTS, INCLUDING A TELEMATICS DEVICE WHICH CONSISTS OF ONE OR MORE RECORDING DEVICES (COLLECTIVELY, THE **"TELEMATICS SYSTEM"**). YOUR TELEMATICS DEVICE COLLECTS AND/OR STORES DATA RELATED TO THE USE AND OPERATION OF THE EQUIPMENT. THE TELEMATICS DEVICE HAS THE ABILITY TO TRANSMIT INFORMATION TO A CENTRAL COMMUNICATIONS SYSTEM OR EXTERNAL DEVICE. YOU EXPRESSLY CONSENT TO TIGERCAT'S USE OF AND ACCESS TO THE TELEMATICS DEVICE AND THE INFORMATION IT CONTAINS AND TRANSMITS. YOU EXPRESSLY CONSENT TO TIGERCAT'S COLLECTION OF INFORMATION AND DATA FROM YOUR TIGERCAT EQUIPMENT. YOU ACKNOWLEDGE THAT THE INFORMATION CONTAINED IN YOUR TELEMATICS DEVICE MAY BE PERIODICALLY TRANSMITTED TO OR OTHERWISE ACCESSED BY TIGERCAT AND OTHERS AUTHORIZED BY TIGERCAT, INCLUDING SERVICE PROVIDERS, AND YOU CONSENT TO SUCH TRANSMISSION AND/OR ACCESS.

YOU ACKNOWLEDGE THAT THE PURPOSES OF THIS TELEMATICS SERVICES AGREEMENT MAY INCLUDE ALL ACCESS TO AND USE OF THE TELEMATICS DATA BY TIGERCAT, INCLUDING ACCESS IN CONNECTION WITH THE SERVICING OF YOUR TIGERCAT EQUIPMENT.

YOU FURTHER ACKNOWLEDGE THAT TIGERCAT MAY USE, STORE, AND OTHERWISE EXERCISE CONTROL OVER ANY DATA OR INFORMATION SO TRANSMITTED OR ACCESSED, IN ANY MANNER WHATSOEVER, WITHOUT LIMITATION, INCLUDING THE RIGHT TO SHARE INFORMATION SO TRANSMITTED OR ACCESSED WITH ITS SERVICE PROVIDERS, AFFILIATES, OR OTHERS AUTHORIZED BY TIGERCAT.

IF YOU OR ANYONE USING YOUR TIGERCAT EQUIPMENT DISABLES DATA TRANSMISSION FROM YOUR TIGERCAT EQUIPMENT, CERTAIN OF THE SERVICES WILL ALSO BE DISABLED.

YOU AGREE TO NOTIFY TIGERCAT IMMEDIATELY IN THE EVENT THAT ANY PORTION OF THE TELEMATICS SYSTEM BECOMES LOST, STOLEN OR DAMAGED.

YOU WILL USE THE SERVICES IN A MANNER CONSISTENT WITH ANY AND ALL APPLICABLE LAWS AND REGULATIONS.

3.4 Third Party Service Providers. TIGERCAT may engage one or more third party service providers, including but not limited to TIGERCAT dealers, wireless service providers, carriers, suppliers, licensors, distributors and other designated parties (each a **"Service Provider"**) to provide the Services.

3.5 Availability of Services. The Services work using satellite wireless communication networks and the Global Navigation Satellite System (“GNSS”). The Services cannot work unless your TIGERCAT equipment is positioned in a location where Our wireless services providers are engaged. Not all features of the Services are available everywhere at all times, including but not limited to heavy tree canopy, remote, or enclosed areas. In addition, certain of the Services may not be available if satellite communication is not functioning, or otherwise, if the satellite signals are obstructed.

3.6 Electronic Messaging. If you elect to receive email, text and/or short message service messages (collectively, **"Electronic Messaging"**) on your mobile device in conjunction with your access to and use of the Services, you hereby consent that TIGERCAT and its Service Providers can communicate with You by means of Electronic Messaging. You acknowledge that your receipt of short message service messages may result in additional charges from your wireless carrier for which you will be liable.

3.7 Equipment Transfers. As may be required by TIGERCAT on a case-by-case basis, You agree to include, as a condition of any sale, lease, rental or other transfer of Your TIGERCAT equipment to a third party, the requirement that such third party assume this Agreement and any associated Order Document. You agree to notify TIGERCAT in the event You sell Your TIGERCAT equipment and to notify the purchaser that such equipment is equipped with the Telematics System.

3.8 Fees. The fees for the Services are set out in Your Order Document. You agree to pay the fees applicable to your subscription in accordance with the applicable Order Document. Fees on overdue accounts will incur a late payment charge of 1.5% per month. At TIGERCAT’s sole option, TIGERCAT may suspend or terminate the Services of any Customer whose account is more than thirty (30) days overdue. Unless otherwise stated in an Order Document, all fees are exclusive of excise, goods and services, sales or similar taxes (collectively **"Taxes"**), which Taxes are the Customer’s sole responsibility. In the event that TIGERCAT pays any Taxes on Your behalf, You agree to reimburse TIGERCAT within thirty (30) days of a notice from TIGERCAT.

4. RESTRICTIONS AND ENFORCEMENT

4.1 Restrictions. You shall not (i) use the Services for any fraudulent, illegal or unlawful purpose, (ii) use the Services to interfere with the use of the Services by other Customers, (iii) create derivate works based on the Services, (iv) engage in any unauthorized access, use, alteration or destruction of any Data, system files, procedures, or Customer information, (v) modify the radio signals and frequencies upon which the Services are provided, (vi) copy, frame or mirror any part or content of the Services, other than copying or framing on Your own intranets or otherwise for Your own internal business purposes, (vii) reverse engineer the Services, (viii) interfere with, disrupt, or modify the functionality of the Services, or (ix) access the Services in order to (a) build a competitive product or service, or (b) copy any features, functions or graphics of the Services.

4.2 Enforcement by TIGERCAT. Any use of the Services in violation of this Agreement may result in, among other consequences, termination or suspension of Your rights to use the Services. We reserve the right (but have no obligation) to investigate and take appropriate legal action in Our sole discretion against You if You violate this provision or any other provision of this Agreement, including without limitation, terminating Your subscription and Account, reporting You to law enforcement authorities, and taking legal action against You.

5. OWNERSHIP –TIGERCAT CONTENT AND SERVICES

5.1 TIGERCAT Content and Services. You acknowledge that all Intellectual Property Rights in the TIGERCAT Content and Services are owned by TIGERCAT, or TIGERCAT's licensors, and are protected by applicable intellectual property and other laws, including but not limited to copyright, trade-mark, patent, confidential information and trade secret, and You will not use such proprietary information or materials in any way except for use of the Services in compliance with the terms of this Agreement. In particular, You agree not to: (a) copy, reproduce, alter, adapt, aggregate, modify, publish, translate, deface, transmit, distribute, publicly perform or display, sell, decompile, disassemble, reverse engineer, or create derivative works from any aspect of the Services or the TIGERCAT Content; or (b) rent, lease, loan, license, sublicense, sell or resell or otherwise transfer or convey the Services, or access to the Services, without prior written consent from TIGERCAT. You hereby agree to waive all claims of rights to the TIGERCAT Content, rights of privacy concerning Data, or the maintenance of such Data by TIGERCAT. You hereby acknowledge that the Data may reside on servers located outside your jurisdiction and may be subject to judicial process.

6. DATA

6.1 Telematics Data. In this Agreement, Data includes, but is not limited to, information related to the use and operation of Your TIGERCAT equipment (e.g. equipment mechanical operating data, equipment performance data, and equipment location data). For reference, the Telematics System may collect the following types of Data through your use of the Services: (i) engine monitoring data (e.g. fuel consumption, engine hours, technical engine parameters, etc.), equipment performance parameters (e.g. hydraulic system performance, use of various equipment functions, distance traveled, etc.), telematics systems information (e.g. Data used, signal performance, software versions, etc.), equipment geographical position, operator identification, equipment internal alerts and/or alarms, logs of acceptance and/or cancellation of alarms by the operator, time stamps, time when the equipment was performing its functions above settable thresholds, equipment down-time, equipment idle-time, equipment off-line time, other equipment location information, altitude, equipment performance, diagnostics and error codes, etc.

6.2 Ownership of Data and License. You shall own all right, title and interest in and to the Data collected from Your TIGERCAT equipment and provided to You through the Services. You hereby grant to TIGERCAT a worldwide, royalty-free, fully paid, transferable, assignable, sublicensable (through multiple tiers), perpetual license to access, collect, analyze, use, and otherwise exercise control over any and all Data collected through the Telematics System outfitted on Your equipment, including the right to share the Data with TIGERCAT's Service Providers (including dealers), affiliates and other parties authorized by TIGERCAT. TIGERCAT has no obligation under this Agreement to provide you with Data collected through the Telematics System except via Your subscription to the Services.

6.3 Use of Data. YOU ACKNOWLEDGE THAT TIGERCAT WILL ACCESS AND USE THE DATA, AND WILL PERMIT ITS SERVICE PROVIDERS TO ACCESS AND USE THE TELEMATICS DATA, IN ORDER TO: UNDERSTAND ALL ASPECTS OF THE USE AND OPERATION OF YOUR TIGERCAT EQUIPMENT, UPDATE SOFTWARE, HELP FACILITATE MAINTENANCE AND REPAIRS TO YOUR TIGERCAT EQUIPMENT, REMOTELY SERVICE, ALTER OR UPGRADE THE PERFORMANCE OF YOUR TIGERCAT EQUIPMENT, AGGREGATE AND EXAMINE ALL COLLECTED INFORMATION WITH LIKE INFORMATION FROM OTHER SUBSCRIBERS, MAKE REPORTS TO REGULATORY AND LAW ENFORCEMENT AUTHORITIES BASED ON COLLECTED INFORMATION, MONITOR AND OPTIMIZE YOUR TIGERCAT EQUIPMENT MAINTENANCE AND SERVICE, ENABLE TIGERCAT AND ITS SERVICE PROVIDERS TO IMPROVE OR DEVELOP PRODUCTS AND SERVICES, OR COMPONENTS THEREOF, IDENTIFY NEW USAGE TYPES OF THE TIGERCAT EQUIPMENT, AND OFFER PRODUCTS AND/OR SERVICES TO YOU.

6.4 Jurisdiction. You acknowledge and agree that the Data may be transferred out of the country where the Data is generated in other jurisdictions, including but not limited to Canada and the United States of America.

6.5 Personal Information. You hereby consent to the collection, use and disclosure of Your Personal Information, including with respect to the transfer of Your Personal Information to other jurisdictions for the purpose of enabling TIGERCAT and its Service Providers to access and use the Data generated through Your use of the Services.

6.6 Third Party Consents. YOU HEREBY WARRANT THAT YOU HAVE OBTAINED NECESSARY CONSENTS FROM YOUR EMPLOYEES, INDEPENDENT CONTRACTS, AND ANY OTHER THIRD PARTIES, INCLUDING WITH RESPECT TO THE TRANSFER OF DATA TO OTHER JURISDICTIONS, TO COMPLY WITH ANY APPLICABLE PRIVACY LAWS OR CONTRACTUAL AGREEMENTS WITH SUCH EMPLOYEES, INDEPENDENT CONTRACTS, AND ANY OTHER THIRD PARTIES AND TO PERMIT TIGERCAT AND ITS SERVICE PROVIDERS TO ACCESS AND USE THE DATA AS SET FORTH IN THIS AGREEMENT.

6.7 Use in Aggregate Form. Notwithstanding anything to the contrary contained herein, TIGERCAT may also: (i) use Your Data to create aggregate, anonymized data sets; and (ii) compile statistical and other information related to Your TIGERCAT equipment, and use such information in aggregate form, for security and operations management, to create statistical analyses, improve and enhance the Services, and for research and development purposes.

6.8 Data Retention. TIGERCAT will store the Data for at least the minimum time required by law. Except as otherwise required by law, TIGERCAT will have the right, but not the obligation, to store the Data indefinitely, or to delete the Data at any time upon expiration of such minimum retention period.

6.9 Data Access. During the Term, Customer will have access to undeleted Data for up to one (1) year from the date of collection. If Customer transfers ownership of any TIGERCAT equipment to another party, Customer may no longer have access to the Data affiliated with such TIGERCAT equipment that is collected after the transfer.

6.10 Return of Data. At Customer's written request, during the term of this Agreement and for thirty (30) days after the effective date of termination or expiration of this Agreement for any reason: (i) At TIGERCAT's option, TIGERCAT shall: (A) provide Customer with a copy of all of Customer's Data in TIGERCAT's possession, including all Data stored on TIGERCAT's servers, systems and files; or (B) permit Customer to retrieve all Data in TIGERCAT's possession, including all Data stored on TIGERCAT's servers, systems and files.

6.11 Security. TIGERCAT shall have in place appropriate technical, physical and organizational security safeguards in place to protect the Data against unauthorized access, collection, use, loss, theft, threats, alteration, disclosure, copying, destruction or disposal, and provide a level of security for the Data that is appropriate to the sensitivity of the Data.

7. TERM AND TERMINATION

7.1 Term of Agreement. This Agreement commences on the date You accept it and will continue in effect until all Customer subscriptions granted in accordance with this Agreement and any Order Document have expired or been terminated, unless specifically terminated earlier by TIGERCAT or You (the "Term"). Upon expiration or termination of this Agreement, You will stop using the Services.

7.2 TIGERCAT Termination. TIGERCAT reserves the right to immediately discontinue the Services for any period of time, or to cancel all Services or this Agreement or any Order Document without penalty to TIGERCAT upon: (i) Your breach or default of this Agreement, (ii) the institution by or against You of insolvency, receivership or bankruptcy proceedings or any other proceedings for the settlement of Your debts, any assignment by You for the benefit of creditors, or Your dissolution or ceasing to do business, or (iii) at any time for TIGERCAT's convenience upon thirty (30) days' notice to You. Termination of this Agreement will disable the Services provided to You and may prevent or limit TIGERCAT from assisting You in the operation and maintenance of Your TIGERCAT equipment. Declining to enter into this Agreement, or canceling this Agreement, will not end the transmission of Data from Your TIGERCAT equipment or the collection of such Data by TIGERCAT. TIGERCAT representatives may access Data, to the extent it is available, and use it in connection with providing services and equipment improvements to You. In the event that this Agreement or any Order Document is terminated by TIGERCAT in accordance with s. 7.2(iii) hereof, TIGERCAT agrees to reimburse you a prorated portion of any prepaid fees (calculated on a straight-line basis from the effective date of termination). You have the right not to enter this Agreement at the time of original purchase of the TIGERCAT equipment, or to cancel this Agreement at the end of any subscription term as set out in an Order Document.

7.3 Customer Termination. You may terminate this Agreement or any Order Document for Your convenience on thirty (30) days prior written notice to TIGERCAT, provided, however, that You shall not be entitled to any refund (or reimbursement of any fees or prepaid fees) or other remedy with respect to any such termination except as expressly provided in this Agreement. In no event will termination relieve You of Your obligation to pay any fees payable to TIGERCAT for the period prior to the effective date of termination.

8. NOTICES

8.1 At TIGERCAT's sole discretion, notices by TIGERCAT to You regarding matters pertaining to this Agreement and/or the performance of this Agreement may be given by means of posting on the Site and/or via e-mail to You.

9. WARRANTY DISCLAIMER

9.1 Disclaimer. YOUR USE OF THE SERVICES IS AT YOUR OWN RISK. TIGERCAT ASSUMES NO RESPONSIBILITY PERTAINING TO OUR CONTENT OR YOUR USE OF THE SERVICES. THE TIGERCAT CONTENT AND SERVICES ARE PROVIDED "AS-IS" AND AS AVAILABLE WITH NO WARRANTIES OR CONDITIONS WHATSOEVER. WE EXPRESSLY DISCLAIM ANY WARRANTIES AND CONDITIONS OF ANY KIND, WHETHER EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING THE WARRANTIES OR CONDITIONS OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, QUIET ENJOYMENT, ACCURACY, OR NON-INFRINGEMENT. WE MAKE NO WARRANTY THAT: (A) THE SERVICES WILL MEET YOUR REQUIREMENTS; (B) THE SERVICES WILL BE AVAILABLE ON AN UNINTERRUPTED, TIMELY, SECURE, VIRUS-FREE OR ERROR-FREE BASIS; OR (C) THE RESULTS THAT MAY BE OBTAINED FROM THE USE OF THE SERVICES WILL BE ACCURATE OR RELIABLE. UNDER NO CIRCUMSTANCES SHALL WE BE LIABLE FOR ANY UNAUTHORIZED USE OF THE TIGERCAT CONTENT AND/OR SERVICES. UNDER NO CIRCUMSTANCES SHALL WE BE RESPONSIBLE FOR ANY LOSS OR DAMAGE, INCLUDING PERSONAL INJURY OR DEATH, RESULTING FROM USE OF THE SERVICES. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OF IMPLIED WARRANTIES, SO THE ABOVE EXCLUSIONS MAY NOT APPLY TO YOU.

9.2 Remedy. IN THE CASE OF ANY SERVICE INTERRUPTIONS OR DEFICIENCIES, YOU WILL NOT BE CREDITED OR REFUNDED ANY FEES AND YOU ACKNOWLEDGE AND AGREE THAT YOUR EXCLUSIVE REMEDY AND TIGERCAT'S ENTIRE LIABILITY IN THE CASE OF A SERVICE INTERRUPTION OR DEFICIENCY SHALL BE THE CORRECTION OF THE INTERRUPTED OR DEFICIENT SERVICES.

10. INDEMNITY

10.1 Customer Indemnity. You will indemnify, defend and hold harmless TIGERCAT, its affiliates, service providers, licensors, and each of their respective officers, directors and employees from and against any and all losses, claims, demands, actions, damages and expenses (including attorneys' fees) arising out of or related to: (i) any interruption of Services which are caused or claimed to have been caused directly or indirectly from Your (including Your employees or independent contractors) negligent use or intentional misuse of the Services or the Telematics System; (ii) any use of the Services for an unauthorized or unlawful purpose; (iii) Data or other information transmitted by You, Your employees or independent contractors via the Telematics System; (iv) any material breach by You of any of the terms and conditions of this Agreement; or (v) any third party intellectual property infringement claims arising out of or relating in any way with respect to Your use of the Services.

11. LIMITATION OF LIABILITY

IN NO EVENT SHALL TIGERCAT, ITS AFFILIATES, SERVICE PROVIDERS, LICENSORS, AND EACH OF THEIR RESPECTIVE OFFICERS, DIRECTORS AND EMPLOYEES BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, PUNITIVE OR INDIRECT DAMAGES RESULTING FROM OR ARISING IN CONNECTION WITH THE CONTENT, THE SITE, THE SERVICES, THE PRIVACY STATEMENT OR THIS AGREEMENT, INCLUDING WITHOUT LIMITATION LOSS OF REVENUES, LOSS OF USE, THE INCAPACITY TO REACH ANY OBJECTIVE, LOSS OF DATA OR DAMAGE TO ANY COMPUTER SYSTEMS, EVEN IF THEY HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES BY YOU OR ANY OTHER PERSON.

WITHOUT IN ANY WAY LIMITING THE GENERALITY OF THE FOREGOING, IN NO EVENT SHALL TIGERCAT, ITS AFFILIATES, SERVICE PROVIDERS, LICENSORS, AND EACH OF THEIR RESPECTIVE OFFICERS, DIRECTORS AND EMPLOYEES BE LIABLE TO YOU OR ANY PERSON: (A) ON ACCOUNT OF YOUR OR THAT PERSON'S USE OR MISUSE OF OR RELIANCE ON THE TIGERCAT CONTENT OR SERVICES; OR (B) FOR ANY LOSS OR DAMAGE SUFFERED AS A RESULT OR IN CONNECTION WITH THE FAILURE, MALFUNCTION, INTERRUPTION, CHANGE, MODIFICATION, AMENDMENT OR WITHDRAWAL OF THE SERVICES.

IN NO EVENT SHALL TIGERCAT, ITS AFFILIATES, SERVICE PROVIDERS, LICENSORS, AND EACH OF THEIR RESPECTIVE OFFICERS, DIRECTORS AND EMPLOYEES BE RESPONSIBLE FOR ANY DAMAGES YOU OR ANY THIRD PARTY MAY SUFFER AS A RESULT OF THE TRANSMISSION, STORAGE OR RECEIPT OF CONFIDENTIAL, PERSONAL OR PROPRIETARY INFORMATION THAT YOU MAKE OR THAT YOU EXPRESSLY OR IMPLICITLY AUTHORIZE TIGERCAT TO MAKE, OR FOR ANY ERRORS OR ANY CHANGES MADE TO ANY TRANSMITTED, STORED OR RECEIVED INFORMATION.

WITHOUT LIMITING THE FOREGOING IN THIS SECTION, THE LIMIT ON THE TOTAL CUMULATIVE LIABILITY OF TIGERCAT TO YOU OR ANY OTHER PERSON, FOR ANY CLAIMS ARISING FROM OR RELATING TO THE SITE, THE SERVICES, THE CONTENT, THE PRIVACY STATEMENT OR THIS AGREEMENT, WILL NOT EXCEED THE GREATER OF (I) $500 OR (II) THE TOTAL AMOUNT PAID BY YOU FOR THE PORTION OF THE SERVICES GIVING RISE TO THE CLAIM DURING THE SIX (6) MONTH PERIOD PRECEDING THE DATE ON WHICH YOUR CLAIM AROSE. THIS AMOUNT IS THE SOLE AND EXCLUSIVE LIABILITY TO YOU OF TIGERCAT, ITS AFFILIATES, SERVICE PROVIDERS, LICENSORS, AND EACH OF THEIR RESPECTIVE OFFICERS, DIRECTORS AND EMPLOYEES.

THE LIMITATIONS SPECIFIED ABOVE SHALL APPLY REGARDLESS OF THE CAUSES OR CIRCUMSTANCES GIVING RISE TO THE CLAIM, EVEN IF SUCH CLAIM IS BASED ON BREACH OF CONTRACT, NEGLIGENCE OR OTHER TORT, AND SHALL SURVIVE A FUNDAMENTAL BREACH OR FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY OR THIS AGREEMENT.

12. MISCELLANEOUS

12.1 Amendments. We reserve the right, in Our sole discretion, to change, modify or otherwise alter this Agreement (including the Privacy Statement) from time to time, for any reason. When such changes occur, We will post the updated version of the Agreement on the Site together with the date on which it was revised. Such changes become effective immediately upon posting. If You do not agree to be bound by (or cannot comply with) the Agreement as amended, Your only remedy is to cancel Your Account and to cease using the Services. You will be deemed to have accepted the Agreement as amended thirty (30) days after the updated version of the Agreement is posted if you continue to use the Services. All other terms of this Agreement will continue in effect.

12.2 Force Majeure. Any delay in the performance of any duties or obligations of either party will not be considered a breach of this Agreement if such delay is caused by circumstances beyond Our reasonable control, including without limitation, acts of God, acts of government, floods, shortage of materials, fires, earthquakes, civil unrest, war, acts of terror, strikes or other labor problems (other than those involving Our employees), failures of common carriers (including cellular, wireless and satellite providers), denial of service attacks, or any other event beyond the control of such party, provided that such party uses reasonable efforts, under the circumstances, to notify the other party of the circumstances causing the delay and to resume performance as soon as possible.

12.3 Survival. Any Section of this Agreement, which, by its nature shall survive the expiration or termination of this Agreement, shall so survive, including, but not limited to the provisions under Sections 3, 6, 7, 10 and 11.

12.4 Export. Export laws and regulations of Canada, the United States and any other relevant local export laws and regulations apply to the Services. You agree that such export laws govern Your use of the Services provided under this Agreement, and You agree to comply with all such export laws and regulations. You agree that no Data, information, software programs and/or materials resulting from Services (or direct product thereof) will be exported, directly or indirectly, in violation of these laws, or will be used for any purpose prohibited by these laws including, without limitation, nuclear, chemical, or biological weapons proliferation, or development of missile technology.

12.5 No Agency. The parties hereto agree that each is an independent party to this Agreement and nothing in this Contract is intended to create, nor does it create, any employment or agency relationship between the parties.

12.6 Order of Precedence. In the event of any conflict between the terms of this Agreement, the Privacy Statement and any Order Document, the terms of this Agreement shall prevail, but only to the extent of such conflict.

12.7 Governing Law. This Agreement shall be governed by the laws of the Province of Ontario, Canada without giving effect to any conflict of laws principles that may provide the application of the law of another jurisdiction. You agree to submit to the personal jurisdiction of the provincial and federal courts located in Ontario, Canada.

12.8 Violations of this Agreement. Should You violate these terms and conditions or any other rights of TIGERCAT, TIGERCAT reserves the right to pursue any and all legal and equitable remedies against You, including, without limitation, restricting, suspending or terminating Your access to all or any part of the Services.

12.9 Entire Agreement. This Agreement, including all exhibits and addenda hereto, constitutes the entire agreement between the parties and supersedes all prior and contemporaneous agreements, proposals or representations, written or oral, concerning its subject matter. No modification, amendment, or waiver of any provision of this Agreement shall be effective unless in writing and either signed or accepted electronically by the party against whom the modification, amendment or waiver is to be asserted. If a court of competent jurisdiction deems any provision of this Agreement unenforceable, that provision will be enforced to the maximum extent permissible, and the remaining provisions will remain in full force and effect.

12.10 Assignment. We may assign this Agreement, in whole, or in part, at any time, with or without notice to You. You may not assign Your rights or delegate Your duties under this Agreement, either in whole or in part, without Our prior written consent.

12.11 Other.

You agree to waive any right You may have to a trial by jury, or commence or participate in any class action against Us related to the Site, the Services or the Agreement.

This Agreement will ensure to the benefit of and be binding upon the parties to this Agreement and their respective successors, heirs and permitted assigns.

This Agreement was written in English (US). To the extent any translated version of this Agreement conflicts with the English version, the English version governs.

No provision of this Agreement will be interpreted against any party merely because that party or its legal representative drafted the provision.

Our failure to exercise or enforce any right or provision of this Agreement shall not operate as a waiver of such right or provision.

The section titles in this Agreement are for convenience only and have no legal or contractual effect: as used in the Agreement, the word "including" means "including but not limited to."

Please contact Us with any questions regarding this Agreement by e-mailing Us at: **info@tigercat.com** .

APPENDIX B. COMMON SYMBOLS

NAVIGATION

Main Menu–Select this button to display the Main Menu on any screen in LogOn. Select this button again to minimize the Main Menu.

Expand/Collapse Menu–Select this button on any menu to expand or collapse the list of menu pages.

Expand/Collapse Panel–Select this button on any panel to expand or collapse the information. For panels which do not display this button, select the panel title to expand or collapse the information.

Expand/Collapse Report–Select this button to view more information about the diagnostic message or report.

DISPLAY FILTERS

Sort–Select this button to sort the results alphabetically or reverse alphabetically by the selected category or column.

Sort (Alphabetical)–This button indicates that the displayed information is sorted alphabetically by this category or column. Select this button to change the sort order.

Sort (Reverse Alphabetical)–This button indicates that the displayed information is sorted reverse alphabetically by this category or column. Select this button to change the sort order.

Date Range–Select this button on any panel to open the date range drop-down menu. The user can filter the information shown on the panel by the following date ranges:

- Since Last Engine Start
- Today
- Yesterday
- This Week *Start Day*

The week start day can be changed in **Settings–User–Week Start Day**.

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