

# MaxxForce<sup>®</sup> 11 and 13 (2010)

Overview: *Trip Reporting*

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## General Overview: Trip Reporting

The Trip Reporting feature monitors, collects and stores engine related operational information. This information can be downloaded and organized into useful reports for the owner or operator.

This document will address the unique Trip Reporting functionality for the MaxxForce® 11 and 13.

## Description and Operation

The Trip Reporting feature is designed to automatically record engine related operational information. This feature records operational data two ways; non-resettable cumulative trip data which consists of running totals, and resettable trip data which consists of data collected since the last trip reset.

The Trip Reporting data is stored within parameters noted as an accumulator. The accumulator feature monitors, collects and stores engine related operational information. This information can then be downloaded and organized into useful reports using Navistar ServiceMaxx™ tool.

## Programmable Parameters

The following programmable parameters are available for cumulative data with the trip reporting feature. These parameters consist of non-resettable, running total (i.e. life of vehicle) data that may not be changed without dealer authorization.

Parameter Value	Description	Possible Values	Cust Pgrm	Recommended Settings
Total Fuel Used (8300)	This parameter indicates the total fuel consumed.	N/A	NO	N/A
Engine ON Time (8301)	This parameter indicates the total time that the engine has been running.	N/A	NO	N/A
Total Miles (8302)	This parameter indicates the total miles that the <u>vehicle</u> has traveled.	N/A	NO	N/A
Total Idle Time (8342)	This parameter indicates the total engine run time at idle. <b>NOTE:</b> Idle time starts to accumulate when the vehicle begins to idle (engine speed is less than low idle speed plus some offset). Idle time stops accumulating when this condition is no longer met.	N/A	NO	N/A
Total Idle Fuel Used (8343)	This parameter indicates the total fuel consumed while the engine has been at idle. <b>NOTE:</b> Idle fuel used value starts to accumulate when the engine speed is less than low idle plus some offset. Idle fuel used value stops accumulating when this condition is no longer met.	N/A	NO	N/A
Total PTO Fuel Used (8313)	This parameter indicates the total fuel consumed while PTO has been active.	N/A	NO	N/A
Engine On Time in PTO (8314)	This parameter indicates the total time that the Power Take-Off (PTO) has been active.	N/A	NO	N/A

Parameter Value	Description	Possible Values	Cust Pgrm	Recommended Settings
Total A/T Parked Regen Requests (8305)	This parameter indicates the total number of Aftertreatment parked regeneration operator requests.	N/A	NO	N/A
Total A/T Regen Inhibit Requests (8306)	This parameter indicates the total number of Aftertreatment regeneration inhibit operator requests.	N/A	NO	N/A
Total Average Vehicle Speed (8337)	This parameter indicates the total average vehicle speed.	N/A	NO	N/A
Vehicle Over Speed #1 Incidents (8328)	This parameter indicates the total number of occurrences when the vehicle has exceeded a programmed vehicle speed limit.	N/A	NO	N/A
Vehicle Over Speed-Level 2 Incidents (8329)	This parameter indicates the total number of occurrences when the vehicle has exceeded a programmed vehicle speed limit.	N/A	NO	N/A
Hard Brake Incident Monitor (8327)	This parameter indicates the total number of hard brake occurrences.	N/A	NO	N/A
ECT Maximum Overlimit Time (8331)	This parameter indicates the total time that the vehicle has exceeded the Maximum Engine Coolant Temperature (ECT) Overlimit (8332)	N/A	NO	N/A
Maximum ECT Overlimit (8332)	This parameter indicates the maximum ECT allowed before the critical level is reached and the event is reported to the engine.	N/A	NO	N/A
EOT Maximum Overlimit Time (8333)	This parameter indicates the total time that the vehicle has exceeded the Maximum Engine Oil Temperature (EOT) Overlimit (8334).	N/A	NO	N/A
Maximum EOT Overlimit (8334)	This parameter indicates the maximum EOT allowed before the critical level is reached and the event is reported to the engine.	N/A	NO	N/A
EOP Minimum Underlimit Time (8335)	This parameter indicates the total time that the vehicle has dropped below the Minimum Engine Oil Pressure (EOP) Underlimit (8336)	N/A	NO	N/A
Minimum EOP Underlimit (8336)	This parameter indicates the minimum EOP allowed before the critical level is reached and the event is reported to the engine.	N/A	NO	N/A

The following programmable parameters are available for trip data with the trip reporting feature. These parameters consist of data collected since the last trip. The programmed values may only be cleared using a service tool reset.

Parameter Value	Description	Possible Values	Cust Pgrm	Recommended Settings
Trip Engine On Time (8355)	This parameter indicates the time that the engine has been running since the last trip reset.  <b><u>NOTE: This parameter will be available in a future software release (level 3.5.2), until then ServiceMaxx™ will use SPN 1036.</u></b>	N/A	NO	N/A
Trip Engine On Time at	This parameter indicates the time that the engine has been running	N/A	NO	N/A

Parameter Value	Description	Possible Values	Cust Pgrm	Recommended Settings
Idle (8312)	at idle since the last trip reset.  <b><u>NOTE: This parameter will be available in a future software release (level 3.5.2), until then ServiceMaxx™ will use SPN 1037.</u></b>			
Trip Idle Fuel Used (8311)	This parameter indicates the fuel consumed at idle since the last trip reset.  <b><u>NOTE: This parameter will be available in a future software release (level 3.5.2), until then ServiceMaxx™ will use SPN 1004.</u></b>	N/A	NO	N/A
Trip Percent Time at Idle (8344)	Percent of idle duration time during a trip.  <b><u>NOTE: This parameter will be available in a future software release (level 3.5.2), until then ServiceMaxx™ will use SPN 1037/SPN 1036.</u></b>	N/A	NO	N/A
Trip Average Vehicle Speed (8338)	This parameter indicates the average vehicle speed since the last trip reset.	N/A	NO	N/A
Trip Vehicle Distance (8340)	This parameter indicates the distance the vehicle has traveled since the last trip reset.	N/A	NO	N/A
Trip Fuel Used (8341)	This parameter indicates the fuel consumed since the last trip reset.	N/A	NO	N/A
Trip Hard Brake Incident Monitor (8345)	This parameter indicates the number of hard brake occurrences since the last trip reset.	N/A	NO	N/A
Trip Engine Over Speed Incident Monitor (8346)	This parameter indicates the number of engine over speed occurrences since the last trip reset.	N/A	NO	N/A
Trip Maximum Engine Speed (8347)	This parameter indicates the maximum engine control module (ECM) recorded engine speed since the last trip reset.	N/A	NO	N/A
Trip Moving PTO Fuel Used (8315)	This parameter indicates the fuel consumed during mobile power take-off (PTO) operation since the last trip reset.	N/A	NO	N/A
Trip Engine On Time in PTO Moving (8316)	This parameter indicates the time that the engine has been running during mobile PTO operation since the last trip reset.	N/A	NO	N/A
Trip Stationary PTO Fuel Used (8317)	This parameter indicates the fuel consumed during stationary PTO operation since the last trip reset.	N/A	NO	N/A
Trip Engine On Time in PTO Stationary (8318)	This parameter indicates the time that the engine has been running during stationary PTO operation since the last trip reset.	N/A	NO	N/A
Trip PTO Device 1 Fuel Used (8319)	This parameter indicates the fuel consumed while PTO Device #1 has been active since the last trip reset.	N/A	NO	N/A
Trip Engine On Time in PTO Device 1 (8320)	This parameter indicates the time that the engine has been running while PTO Device #1 has been active since the last trip reset.	N/A	NO	N/A

Parameter Value	Description	Possible Values	Cust Pgrm	Recommended Settings
Trip PTO Device 2 Fuel Used (8321)	This parameter indicates the fuel consumed while PTO Device #2 has been active since the last trip reset.	N/A	NO	N/A
Trip Engine On Time in PTO Device 2 (8322)	This parameter indicates the time that the engine has been running while PTO Device #2 has been active since the last trip reset.	N/A	NO	N/A
Trip PTO Device 3 Fuel Used (8323)	This parameter indicates the fuel consumed while PTO Device #3 has been active since the last trip reset.	N/A	NO	N/A
Trip Engine On Time in PTO Device 3 (8324)	This parameter indicates the time that the engine has been running while PTO Device #3 has been active since the last trip reset.	N/A	NO	N/A

## Frequently Asked Questions

**The driver needs to know how to improve their driving in conjunction with printed trip reports. What do we have for trip information on the dash?**

The following are capable of being displayed on most clusters: odometer, trip odometer, total engine hours, trip hours, machine PTO A hours, machine PTO B hours, engine PTO hours, instantaneous fuel economy, trip average fuel economy, front axle load and rear axle load.

**Is it possible to reset an individual trip accumulator value?**

No, all values are cleared at once with a service tool.

## Definitions/Acronyms

The following terms are referenced in this document:

Acronym	Definition
ECM	Engine Control Module
ECT	Engine Coolant Temperature
EOP	Engine Oil Pressure
EOT	Engine Oil Temperature
PTO	Power Take-off