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## 1. Trip Reporting (General Overview)

The trip reporting feature is designed to monitor, collect, and store engine related operational information. This information can be downloaded and organized into useful reports using a service tool.

The document will address unique trip reporting functionality for MaxxForce® 11 and 13 engines.

There is no programmable parameter setup required.

### 1.1. Feature Codes

N/A

## 2. Definitions/Acronyms

The following terms are referenced in this document:

- **ECM** – Engine Control Module
- **ECT** – Engine Coolant Temperature
- **EOP** – Engine Oil Pressure
- **EOT** – Engine Oil Temperature
- **PTO** – Power Take Off
- **A/T** – Aftertreatment

## 3. Description and Operation

### 3.1. Operation

Trip reporting operational data is recorded in two ways; non-resettable cumulative data which consists of running totals, and resettable trip data which consists of data collected since the last trip reset.

## 3.2. Feature Interaction

This feature will be impacted by some vehicle setup parameters. These are described in the vehicle setup documentation.

## 4. Programmable Parameters

### 4.1. Cumulative Data

The following programmable parameters consist of non-resettable “running total” (i.e. life of vehicle) data that may not be changed without dealer authorization.

Parameter Name	Description	Possible Values	Customer Programmable?	Recommended Setting
Total Engine Hours (8301)	Indicates the total time that the engine has been running.	N/A	NO	N/A
Total Engine Distance (8330)	Indicates the total distance that the engine has traveled.	N/A	NO	N/A
Total Vehicle Distance (8302)	Indicates the total distance that the vehicle has traveled.	N/A	NO	N/A
Total Fuel Used (8300)	Indicates the total fuel consumed.	N/A	NO	N/A
Total Fuel Economy (8339)	Indicates the total ECM recorded fuel economy.	N/A	NO	N/A
Total Idle Time (8342)	Indicates the total engine run time at idle.	N/A	NO	N/A
Total Idle Fuel Used (8343)	Indicates the total fuel consumed while the engine has been at idle.	N/A	NO	N/A
Engine On Time in PTO (8314)	Indicates the total time that the PTO has been active.	N/A	NO	N/A
Total PTO Fuel Used (8313)	Indicates the total fuel consumed while PTO has been active.	N/A	NO	N/A

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Top Gear Engine Hours (8378)	Indicates the total time that the engine has been running while the vehicle is in top gear (i.e. 10th gear on a 10 speed manual transmission).	N/A	NO	N/A
Top Gear Minus One Engine Hours (8380)	Indicates the total time that the engine has been running while the vehicle is in top gear minus 1 (i.e. 9th gear on a 10 speed manual transmission).	N/A	NO	N/A
Cruise Control Engine Hours (8382)	Indicates the total time that the engine has been running while cruise control is engaged.	N/A	NO	N/A
Total A/T Parked Regen Requests (8305)	Indicates the total number of aftertreatment (A/T) parked regeneration operator requests.	N/A	NO	N/A
Total A/T Regen Inhibit Requests (8306)	Indicates the total number of aftertreatment (A/T) "regeneration inhibit" operator requests.	N/A	NO	N/A
Number of Rolling Regens Initiated (8384)	Indicates the total number of aftertreatment (A/T) regenerations initiated by the operator while the vehicle is moving.	N/A	NO	N/A
HICM Fuel Accumulated (8376)	Indicates the total fuel injected by the after treatment doser during parked (stationary) or rolling (mobile) regeneration mode.	N/A	NO	N/A
Total Average Vehicle Speed (8337)	Indicates the total average vehicle speed.	N/A	NO	N/A
Vehicle Over Speed #1 Incidents (8328)	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)	Indicates the total number of occurrences when the vehicle has exceeded a programmed vehicle speed limit.	N/A	NO	N/A

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Hard Brake Incident Monitor (8327)	Indicates the total number of hard brake occurrences.	N/A	NO	N/A
ECT Maximum Overlimit Time (8331)	Indicates the total time that the vehicle has exceeded the Maximum ECT Overlimit (8332).	N/A	NO	N/A
Maximum ECT Overlimit (8332)	Indicates the maximum engine coolant temperature 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)	Indicates the total time that the vehicle has exceeded the Maximum EOT Overlimit (8334).	N/A	NO	N/A
Maximum EOT Overlimit (8334)	Indicates the maximum engine oil temperature 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)	Indicates the total time that the vehicle has dropped below the Minimum EOP Underlimit (8336).	N/A	NO	N/A
Minimum EOP Underlimit (8336)	Indicates the minimum engine oil pressure allowed before the critical level is reached and the event is reported to the engine.	N/A	NO	N/A

### 4.2. Trip Data

The following programmable parameters consist of data collected since the last trip. The programmed values may only be cleared using a service tool reset.

Parameter Name	Description	Possible Values	Customer Programmable?	Recommended Setting
Trip Engine On Time (8355)	Indicates the time that the engine has been running since the last trip reset.	N/A	NO	N/A
Trip Vehicle Distance (8340)	Indicates the distance the vehicle has traveled since the last trip reset.	N/A	NO	N/A

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Trip Fuel Used (8341)	Indicates the fuel consumed since the last trip reset.	N/A	NO	N/A
Trip Average Fuel Economy (8353)	Indicates the average fuel economy since the last trip reset.	N/A	NO	N/A
Trip Engine On Time at Idle (8312)	Indicates the time that the engine has been at idle since the last trip reset.	N/A	NO	N/A
Trip Percent Time at Idle (8344)	Indicates the percent time at idle since the last trip reset.	N/A	NO	N/A
Trip Idle Fuel Used (8311)	Indicates the fuel consumed at idle since the last trip reset.	N/A	NO	N/A
Trip Top Gear Engine Hours (8379)	Indicates the time that the engine has been running while the vehicle is in top gear (i.e. 10th gear on a 10 speed manual transmission) since the last trip reset.	N/A	NO	N/A
Trip Top Gear Minus One Engine Hours (8381)	Indicates the time that the engine has been running while the vehicle is in top gear minus 1 (i.e. 9th gear on a 10 speed manual transmission) since the last trip reset.	N/A	NO	N/A
Trip Cruise Control Engine Hours (8383)	Indicates the time that the engine has been running while cruise control is engaged since the last trip reset.	N/A	NO	N/A
Trip A/T Parked Regens (8349)	Indicates the number of aftertreatment (A/T) parked regeneration operator requests since the last trip reset.	N/A	NO	N/A
Trip A/T Rolling Regens (8350)	Indicates the number of aftertreatment (A/T) rolling regenerations since the last trip reset.  NOTE: This excludes "Parked" regenerations.	N/A	NO	N/A
Trip ACM Fuel Accumulated (8377)	Indicates the fuel injected by the after treatment doser during parked (stationary) or rolling (mobile) regeneration mode since the last trip reset.	N/A	NO	N/A

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Trip Maximum Engine Speed (8347)	Indicates the maximum ECM recorded engine speed since the last trip reset.	N/A	NO	N/A
Trip Maximum Vehicle Speed (8348)	Indicates the maximum ECM recorded vehicle speed since the last trip reset.	N/A	NO	N/A
Trip Average Vehicle Speed (8338)	Indicates the average vehicle speed since the last trip reset.	N/A	NO	N/A
Trip Engine Over Speed Incident Monitor (8346)	Indicates the number of engine over speed occurrences since the last trip reset.	N/A	NO	N/A
Trip Hard Brake Incident Monitor (8345)	Indicates the number of hard brake occurrences since the last trip reset.	N/A	NO	N/A
Trip Fan On Time (8304)	Indicates the time that the engine cooling fan has been on since the last trip reset.	N/A	NO	N/A
Trip Moving PTO Fuel Used (8315)	Indicates the fuel consumed during mobile PTO operation since the last trip reset.	N/A	NO	N/A
Trip Engine On Time in PTO Moving (8316)	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)	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)	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)	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)	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
Trip PTO Device 2 Fuel Used (8321)	Indicates the fuel consumed while PTO Device #2 has been active since the last trip reset.	N/A	NO	N/A

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Trip Engine On Time in PTO Device 2 (8322)	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)	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)	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

### 5. Parameter Setup

N/A

### 6. Frequently Asked Questions

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

**A.** 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.

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

**A.** No, All values are cleared at once with a service tool.