

DATA POINTS TELEMATICS ERA - COMPRESSORS AND GENERATORS



Data elements and attributes		Generators and Compressors			
		Generator	Compressor	Climate control	Lighting
Header information (EquipmentHeader)					
– Telematics Unit Installation Date (UnitInstallDateTime)		Yes	Yes	Yes	Yes
– Equipment Make (OEMName)		Yes	Yes	Yes	Yes
– Equipment Model (Model)		Yes	Yes	Yes	Yes
– Equipment ID (EquipmentID)		Yes	Yes	Yes	Yes
– Serial Number (SerialNumber)		Yes	Yes	Yes	Yes
– OEM ISO Number (PIN)		Yes	Yes	Yes	Yes
– Vehicle Identification Number (VIN)		Yes	Yes	Yes	Yes
Telematics hardware ID number		Yes	Yes	Yes	Yes
Telematics hardware model		Yes	Yes	Yes	Yes
Telematics hardware make		Yes	Yes	Yes	Yes
Telematics network types		Yes	Yes	Yes	Yes
Last known location (Location)					
– Date and time (datetime)		Yes	Yes	Yes	Yes
– Latitude of location (Latitude)		Yes	Yes	Yes	Yes
– Longitude of location (Longitude)		Yes	Yes	Yes	Yes
– Altitude of location (Altitude)		Yes	Yes	Yes	Yes
– Units of Altitude (AltitudeUnits)		Yes	Yes	Yes	Yes
Operating hours (CumulativeOperatingHours)					
– Date and time (datetime)		Yes	Yes	Yes	Yes
– Cumulative operating hours (Hour)		Yes	Yes	Yes	Yes
Cumulative fuel used (FuelUsed)					
– Date and time (datetime)		Yes	Yes	Yes	Yes
– Unit of measure of fuel (FuelUnits)		Yes	Yes	Yes	Yes
– Cumulative fuel used (FuelConsumed)		Yes	Yes	Yes	Yes
Fuel used in the preceding 24hr (FuelUsedLast24)					
– Date and time (datetime)		Yes	Yes	Yes	Yes
– Unit of measure of fuel (FuelUnits)		Yes	Yes	Yes	Yes
– Fuel used preceding 24 hrs (FuelConsumed)		Yes	Yes	Yes	Yes
Cumulative distance travelled (Distance)					
– Date and time (datetime)		Yes	Yes	Yes	Yes
– Unit of measure of distance (OdometerUnits)		Yes	Yes	Yes	Yes
– Cumulative distance travelled (Odometer)		Yes	Yes	Yes	Yes
Caution Codes (CautionMessages)					
– Date and time (datetime)		Yes	Yes	Yes	Yes
– Caution codes referencing number identifier (Identifier)		Yes	Yes	Yes	Yes
– Description of caution (Description)		Yes	Yes	Yes	Yes
Cumulative idle operating hours (Cumulative Idle Hours)					
– Date and time (datetime)		Yes	Yes	Yes	Yes
– Cumulative idle hour (Hour)		Yes	Yes	Yes	Yes
Fuel remaining ratio (FuelRemaining)					
– Date and time (datetime)		Yes	Yes	No	Yes
– Fuel remaining ratio (Percent)		Yes	Yes	No	Yes
– Unit of Measure of Fuel Tank (FuelTankCapacityUnits)		Yes	Yes	No	Yes
– Fuel Tank Capacity (FuelTankCapacity)		Yes	Yes	No	Yes

Comments

NOTE: PIN and VIN are interchangeable mutually exclusive.

real time will be a future

towed machines yes
towed machines yes
towed machines yes

Specify caution codes that are most important

solution codes

daily 24 hours / reports / customer info

not operating machine running hours (open main breaker) (safety valve closed)

external fuel tank

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DEF remaining ratio (DEFRemaining)					
- Date and time (datetime)		Yes	Yes	No	Yes
- DEF remaining ratio (Percent)		Yes	Yes	No	Yes
- Unit of Measure of DEF Tank (DEFTankCapacityUnits)		Yes	Yes	No	Yes
- DEF Tank Capacity (DEFTankCapacity)		Yes	Yes	No	Yes
Engine condition (EngineStatus)					
- Date and time (datetime)	fuel pressure, temperature , oil pressure, vibrations, Oil level for compressor	Yes	Yes	Yes	Yes
- Engine number (EngineNumber)		Yes	Yes	Yes	Yes
- Engine running (Running)		Yes	Yes	Yes	Yes
Digital input state (SwitchStatus)					
- Date and time (datetime)	Valve for Generator/Compressor	Yes	Yes	Yes	Yes
- Digital input number (SwitchNumber)	Main Breaker for Climate Control or Lighting	Yes	Yes	Yes	Yes
- Is switch on or off (IsOn)		Yes	Yes	Yes	Yes
Cumulative power take off hours (CumulativePowerTakeOffHours)					
- Date and time (datetime)		NA	NA	NA	NA
- Cumulative power take off hours (Hour)		NA	NA	NA	NA
Attachmenttype		NA	NA	NA	NA
Average daily engine load factor (AverageLoadFactorLast24)	(unit of measurement: torque/pressure/etc.)				
- Date and time (datetime)		Yes	Yes	Yes	Yes
- Average daily load factor (LoadFactor)		Yes	Yes	Yes	yes
Peak Daily and Actual Speed (MaximumSpeedLast24)					
- Date and time (datetime)	actual speed!	NA	NA	NA	NA
- Unit used for speed (SpeedUnits)		NA	NA	NA	NA
- Peak speed (Speed)		NA	NA	NA	NA
- Actual speed					
Cumulative Load Count (CumulativeLoadCount)					
- Date time (datetime)		NA	NA	NA	NA
- Cumulative load count (Count)		NA	NA	NA	NA
Cumulative Payload Totals (CumulativePayloadTotals)					
- Date and time (datetime)		NA	NA	NA	NA
- Unit of measure for payload (weightuom)		NA	NA	NA	NA
- Cumulative payload (Payload)		NA	NA	NA	NA
Cumulative Nonproductive Regeneration Hours (CumulativeActiveRegenerationHours)					
- Date and time (datetime)		Yes	Yes	NA	Yes
- Cumulative regeneration hour (Hour)		Yes	Yes	NA	Yes
Date and time skipped regeneration cycle		Yes	Yes	NA	Yes
Cumulative idle non operating hours (CumulativeNonProductiveIdleHours)					
- Date and time (datetime)	low load regeneration	Yes	Yes	Yes	Yes
- Cumulative non productive idle (Hour)		Yes	Yes	Yes	Yes
Diagnostic Trouble Codes (DiagnosticTroubleCode)					
- Diagnostic Trouble Code Identifier (CodeIdentifier)	solutions?	Yes	Yes	Yes	Yes
- Date and time (datetime)		Yes	Yes	Yes	Yes
- Code severity (CodeSeverity)		Yes	Yes	Yes	Yes
- Code description (CodeDescription)		Yes	Yes	Yes	Yes
- Temperature units (temperatureunits)		Yes	Yes	Yes	Yes
- Ambient air temperature (airtemp)		Yes	Yes	Yes	Yes
- Description of Code Source (CodeSource)		Yes	Yes	Yes	Yes

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Battery status					
Date and time of load cycle (at partly electric driven machines)		NA	NA	Yes	Yes
Battery voltage		Yes	Yes	NA	Yes
Remaining capacity		NA	NA	NA	NA
Battery level		NA	NA	NA	NA
Emergency shutdown					
Activation date & Time emergency shutdown		Yes	Yes	Yes	Yes
Extraction&Elevation					
Length		NA	NA	NA	Yes
Height		NA	NA	NA	Yes
Reach (in Meters)		NA	NA	NA	NA
Angle		NA	NA	NA	NA
Outriggers					
Date and time		NA	NA	NA	NA
Outriggers deployed yes/no		NA	NA	NA	NA
Collisions					
Date and time of collision		NA	NA	NA	NA
Amount of collision		NA	NA	NA	NA
Low impact (KJ)		NA	NA	NA	NA
Medium impact (KJ)		NA	NA	NA	NA
High impact (KJ)		NA	NA	NA	NA
Hydraulics					
level		NA	NA	NA	NA
temp		NA	NA	NA	NA
CO2 Emissions					
CO2 Emissions		Yes	Yes	NA	Yes

Data elements

	ISO - Urgently needed by the rental companies
	ISO - Not needed in priority by the rental companies
	Addition to ISO standard, needed by the rental companies

Frequency

	once per setup / possible to pull
	once per day
	every 15 minutes
	push function / as soon it happens