

domain_description	unique_name	type	unit	datapoint_description
Accelerator Pedal	Accelerator Pedal Position	decimal	%	Expressed in percentage e.g. 28.56
Access Control	Access Control Session Id	string	null	Unique identifier of the session.
Access Control	Access Control Session Active	boolean	null	State of the session. True means that machine is unblocked & ignition is on. False means that either ignition is off or machine is blocked.
Activity	Operated	boolean	null	State of input configured as operating hours input
Alert	Pothole Protection Active	boolean	null	Pot hole sensor is active. Asset cannot be used.
Alert	Slope Rating Sensor Active	boolean	null	Slope rating sensor is active. Asset cannot be used.
Analog Input 1	Analog Input 1	integer	mV	Expressed in mV e.g. 25109
Analog Input 1	Analog Input 1 To Digital	boolean	null	Analog Input 1 converted to digital
Analog Input 2	Analog Input 2	integer	mV	Expressed in mV e.g. 25109
Analog Input 2	Analog Input 2 To Digital	boolean	null	Analog Input 2 converted to digital
Analog Input 3	Analog Input 3	integer	mV	Expressed in mV e.g. 25109
Analog Input 3	Analog Input 3 To Digital	boolean	null	Analog Input 3 converted to digital
Analog Input 4	Analog Input 4	integer	mV	Expressed in mV e.g. 25109
Analog Input 4	Analog Input 4 To Digital	boolean	null	Analog Input 4 converted to digital
Analog Input 5	Analog Input 5	integer	mV	Expressed in mV e.g. 25109
Analog Input 5	Analog Input 5 To Digital	boolean	null	Analog Input 5 converted to digital
Analog Input 6	Analog Input 6	integer	mV	Expressed in mV e.g. 25109
Analog Input 6	Analog Input 6 To Digital	boolean	null	Analog Input 6 converted to digital
Analog Input 7	Analog Input 7	integer	mV	Expressed in mV e.g. 25109
Analog Input 7	Analog Input 7 To Digital	boolean	null	Analog Input 7 converted to digital
Analog Input 8	Analog Input 8	integer	mV	Expressed in mV e.g. 25109
Analog Input 8	Analog Input 8 To Digital	boolean	null	Analog Input 8 converted to digital
Auxiliary Battery	Auxiliary Battery Voltage	integer	mV	Expressed in mV e.g. 5200
Auxiliary Engine	Auxiliary Engine Running	boolean	null	Auxiliary drive is running. In case an input is connected, this datapoint is matching with the 'Auxiliary drive' label"
Auxiliary Pump	Auxiliary Pump Temperature	decimal	°C	The temperature of the auxiliary pump system, expressed in °C.
Auxiliary Pump	Auxiliary Pump Pressure	decimal	kPa	The pressure of the auxiliary pump system, expressed in kPa.
Battery	Battery Voltage	integer	mV	Expressed in mV e.g. 25109
Battery	Battery Charging	boolean	null	Charging. In case an input is connected, this datapoint is matching with the 'Charging' or 'Battery charging' label"
Battery	Battery Percentage	decimal	%	Expressed in percentage e.g. 28
Battery	Battery Total Energy Used	decimal	kWh	Total energy used by the machine, expressed in kilowatt hours. (Equivalent to main_engine.fuel_tank_total_fuel_used)
Battery	Chassis Disconnected	boolean	null	Chassis disconnected. Input filtering should be used. In case an input is connected, this datapoint is matching with the 'chassis' label"
Battery	Battery Discharging	boolean	null	In use
Battery	Battery Temperature	decimal	°C	Expressed in °C. Temperature of the battery.
Battery	Battery Last Charge Capacity Added	decimal	Ah	The added battery capacity from the last charge, expressed in Amp hours.
Battery Low	Battery Low	boolean	null	Indicates if the battery is low.
Battery	Battery Time Since Last Charge	integer	s	How long it has been since the last charge, expressed in seconds.
Battery	Battery Charge Cycles	integer	null	How many times the battery has been charged.
Battery	Battery Cumulative Charge Capacity	decimal	Ah	The cumulative charged capacity of the battery, expressed in Amp hours.
Battery	Battery Current Capacity Charged	decimal	Ah	The current capacity charged of the battery, expressed in Amp hours.
Battery	Battery Cumulative Discharge Capacity	decimal	Ah	The cumulative discharged capacity of the battery, expressed in Amp hours.
Battery	Battery Cumulative Charge Time	integer	s	The cumulative time of the battery spent charging, expressed in seconds.
Battery	Battery Current Charge Time	integer	s	The current time of the battery spent charging, expressed in seconds.
Battery	Battery Cumulative Discharge Time	integer	s	The cumulative time of the battery spent discharging, expressed in seconds.
Battery	Battery Current Power Reduction Percentage	decimal	%	The current power reduction percentage due to battery condition, expressed in percentage.
Battery	Battery Output Current	integer	mA	The current output of the battery, expressed in milliamperes.
Battery	Battery Output Power	decimal	W	The current power output of the battery, expressed in Watts.
Battery	Battery State of Health	decimal	%	The state of health of the battery, expressed in percentage.
Battery	Battery Max Cell Voltage	integer	mV	The highest voltage among the battery cells, expressed in mV e.g. 3412
Battery	Battery Min Cell Voltage	integer	mV	The lowest voltage among the battery cells, expressed in mV e.g. 3287
Battery	Battery Full Capacity	decimal	Ah	The capacity of the battery when fully charged, expressed in Amp hours.
Battery	Battery Remaining Capacity	decimal	Ah	The capacity currently left in the battery, expressed in Amp hours.
Battery Charger	Battery Charger Status	string	null	The status of the battery charger.
Battery Charger	Battery Charger Connection State	string	null	The state of the connection between the battery charger and the battery
Battery Charger	Battery Charger Connected	boolean	null	Indicates if the charger is connected
Battery Charger	Battery Charger Output Voltage	integer	mV	Expressed in millivolt, the output voltage of the battery charger
Battery Charger	Battery Charger Output Current	integer	mA	Expressed in milliampere, the output current of the battery charger
Battery Charger	Battery Charger Percentage	decimal	%	Expressed in percentage e.g. 28
Battery Charger	Battery Charger AC Input Voltage	integer	mV	Expressed in millivolt, the AC input voltage of the battery charger
Battery Charger	Battery Charger Charging	boolean	null	Indicates if the battery charger is charging.
Brake	Brake Active	boolean	null	Brake active
Brake	Brake Fluid Low	boolean	null	Indicates if a warning is issued because the brake fluid is low.
Bus	Generator Bus Current Lag Lead	decimal	°	Expressed in degrees
Bus	Generator Bus Frequency	decimal	Hz	Expressed in hertz
Bus	Generator Bus L1 N Voltage	integer	mV	Expressed in millivolt
Bus	Generator Bus L2 N Voltage	integer	mV	Expressed in millivolt
Bus	Generator Bus L3 N Voltage	integer	mV	Expressed in millivolt
Bus	Generator Bus L1 L2 Voltage	integer	mV	Expressed in millivolt
Bus	Generator Bus L2 L3 Voltage	integer	mV	Expressed in millivolt
Bus	Generator Bus L3 L1 Voltage	integer	mV	Expressed in millivolt
Bus	Generator Bus L1 Current	integer	mA	Expressed in milliampere
Bus	Generator Bus L2 Current	integer	mA	Expressed in milliampere
Bus	Generator Bus L3 Current	integer	mA	Expressed in milliampere
Bus	Generator Bus Earth Current	integer	mA	Expressed in milliampere
Bus	Generator Bus L1 Watts	decimal	W	Expressed in watt
Bus	Generator Bus L2 Watts	decimal	W	Expressed in watt
Bus	Generator Bus L3 Watts	decimal	W	Expressed in watt
Bus	Generator Bus Phase Rotation	decimal	°	Rotation of the bus
Bus	Generator Bus 2 Frequency	decimal	Hz	Expressed in hertz
Cargo Load	Overload	boolean	null	Overload
Cargo Load	Overload Bridged	boolean	null	Overload bridged
Cargo Load	Cargo Load Weight (Deprecated)	decimal_with_unit	null	Converted some analog input to some unit
Cargo Load	Load Weight	decimal	kg	The weight of the load of the cargo/platform, expressed in KG
Cargo Load	Total Load Weight	decimal	kg	The cumulative weight of the load of the cargo/platform, expressed in KG
Cargo Load	Load	boolean	null	Load expressed as true/false. In case an input is connected, this datapoint is matching with the 'Laden' label"
Cargo Load	Load Voltage	integer	mV	Load sensing expressed in mV
Cargo Load	Load Handling Mode Fork	boolean	null	Indicates if handling mode is set to fork.

Cargo Load	Load Handling Mode Bucket	boolean	null	Indicates if handling mode is set to bucket.
Cargo Load	Load Handling Mode Suspended	boolean	null	Indicates if handling mode is set to suspended.
Controller	Controller Software Version	string	null	The software version of the controller.
Controller	Controller Config Version	string	null	The configuration version of the controller.
Cumulative Power Takeoff Hours	Total Power Takeoff Hours	integer	s	Total power takeoff in seconds
Device Battery	Device Battery Voltage	integer	mV	Expressed in mV e.g. 8682
Device Battery	Device Battery Percentage	decimal	%	Expressed in % (eg. 90)
Device Battery	Device Battery Discharging	boolean	null	Device Battery In Use
Device Can 1	Device Can 1 Baud Rate	integer	bit/s	The baud rate used by the CAN interface
Device Can 2	Device Can 2 Baud Rate	integer	bit/s	The baud rate used by the CAN interface
Device Connectivity	Device Last Connectivity	string	null	Expressed in Zulu time e.g. 2021-03-10T08:51:17.000Z
Device GSM Quality	Device GSM Quality	integer	null	Expressed in values 1 to 5 (5 meaning best quality) and where 0 means no signal
Digital Input 1	Digital Input 1	boolean	null	Digital input 1
Digital Input 2	Digital Input 2 Raw	boolean	null	Digital Input 1 with no transformations (inversion/filtering) applied
Digital Input 2	Digital Input 2	boolean	null	Digital Input 2 with no transformations (inversion/filtering) applied
Digital Input 3	Digital Input 3	boolean	null	Digital input 3
Digital Input 3	Digital Input 3 Raw	boolean	null	Digital Input 3 with no transformations (inversion/filtering) applied
Digital Input 4	Digital Input 4	boolean	null	Digital input 4
Digital Input 4	Digital Input 4 Raw	boolean	null	Digital Input 4 with no transformations (inversion/filtering) applied
Digital Input 5	Digital Input 5	boolean	null	Digital input 5
Digital Input 5	Digital Input 5 Raw	boolean	null	Digital Input 5 with no transformations (inversion/filtering) applied
Digital Input 6	Digital Input 6	boolean	null	Digital input 6
Digital Input 6	Digital Input 6 Raw	boolean	null	Digital Input 6 with no transformations (inversion/filtering) applied
Digital Input 7	Digital Input 7	boolean	null	Digital input 7
Digital Input 7	Digital Input 7 Raw	boolean	null	Digital Input 7 with no transformations (inversion/filtering) applied
Digital Input 8	Digital Input 8	boolean	null	Digital input 8
Digital Input 8	Digital Input 8 Raw	boolean	null	Digital Input 8 with no transformations (inversion/filtering) applied
Emergency Pump	Emergency Pump Running	boolean	null	Emergency pump running
Emergency Stop	Emergency Stop Active	boolean	null	Emergency stop is used
Environment	Ambient Air Temperature	decimal	°C	Expressed in °C, the temperature of the air surrounding the machine
Environment	Barometric Pressure	decimal	kPa	Expressed in kPa, the atmospheric pressure of the surrounding environment.
Errors	Active Errors	array	null	array with objects e.g. [{"suspect_param_nr":1}, {"suspect_param_nr":2}]
Errors	Errors	array	null	Array with errors objects. This uses a new error flow, where you can directly control if the error is closed or not.
Exhaust	Exhaust Gas Temperature	decimal	°C	Expressed in °C. The temperature of the exhaust gases.
Generator	Generator Baud Rate	decimal	null	Baud rate of the generator
Generator	Generator Frequency	decimal	Hz	Expressed in hertz
Generator	Generator L1 N Voltage	integer	mV	Expressed in millivolt
Generator	Generator L2 N Voltage	integer	mV	Expressed in millivolt
Generator	Generator L3 N Voltage	integer	mV	Expressed in millivolt
Generator	Generator L1 L2 Voltage	integer	mV	Expressed in millivolt
Generator	Generator L2 L3 Voltage	integer	mV	Expressed in millivolt
Generator	Generator L3 L1 Voltage	integer	mV	Expressed in millivolt
Generator	Generator L1 Current	integer	mA	Expressed in milliampere
Generator	Generator L2 Current	integer	mA	Expressed in milliampere
Generator	Generator L3 Current	integer	mA	Expressed in milliampere
Generator	Generator Earth Current	integer	mA	Expressed in milliampere
Generator	Generator L1 Watts	decimal	W	Expressed in watt
Generator	Generator L2 Watts	decimal	W	Expressed in watt
Generator	Generator L3 Watts	decimal	W	Expressed in watt
Generator	Generator Current Lag Lead	decimal	°	Expressed in degrees
Generator	Generator Phase Rotation	integer	null	The generator phase rotation
Generator	Generator L N Voltage Average	integer	mV	Expressed in millivolt
Generator	Generator L N Voltage Difference	integer	mV	Expressed in millivolt
Generator	Generator L N Voltage Min	integer	mV	Expressed in millivolt
Generator	Generator L N Voltage Max	integer	mV	Expressed in millivolt
Generator	Generator L L Voltage Average	integer	mV	Expressed in millivolt
Generator	Generator L L Voltage Difference	integer	mV	Expressed in millivolt
Generator	Generator L L Voltage Min	integer	mV	Expressed in millivolt
Generator	Generator L L Voltage Max	integer	mV	Expressed in millivolt
Generator	Generator Current Average	integer	mA	Expressed in milliampere
Generator	Generator Current Difference	integer	mA	Expressed in milliampere
Generator	Generator Current Min	integer	mA	Expressed in milliampere
Generator	Generator Current Max	integer	mA	Expressed in milliampere
Generator	Generator Charge Alternator Voltage	integer	mV	Expressed in millivolt
Generator	Generator Total Active Power	decimal	W	Expressed in watt
Generator	Generator Total Apparent Power Percentage	decimal	%	Expressed in percentage
Generator	Generator Total Apparent Power	decimal	VA	Expressed in volt-ampere
Generator	Generator Total Power Factor	decimal	null	Expressed as a ratio between 0 and 1
Generator	Generator Total Reactive Power	decimal	VAR	Expressed in volt-ampere reactive
Generator	Generator Total Energy Export	decimal	kWh	Expressed in kilowatt-hour
Generator	Generator Total Energy Import	decimal	kWh	Expressed in kilowatt-hour
Generator	Generator Power Factor Lagging	boolean	null	Indicates if the power factor is lagging (true) or leading (false)
Generator	Generator Average Frequency	decimal	Hz	Expressed in hertz
Generator Controls	Generator Controls Control Mode	string	null	The control mode
Generator Controls	Generator Controls In Automatic Start State	boolean	null	Indicates if the generator is in automatic start state.
Generator Engine	Generator Engine Running	boolean	null	Is the generator engine running.
Generator Engine	Generator Engine Operating Status	string	null	Indicates the operating status of the generator engine.
Hour Counter	Hour Counter	boolean	null	Hour counter of asset is running. In case an input is connected, this datapoint is matching with the 'Hour counter' or 'Equipment run' label"
Hour Counter	Total Hour Counter	integer	s	Expressed in seconds. The current total lifetime operating hours of the machine is expressed as the cumulative quantity of time during which the machine's engine has been running. This is generally the value of the hourmeter on the machine.
Hour Counter	Total Seat Hours	integer	s	Expressed in seconds. Total time seat is used.
Hour Counter	Total Lift Hours	integer	s	Expressed in seconds. Total time lift is used.
Hour Counter	Total Drive Hours	integer	s	Expressed in seconds. Total time asset is driven.
Hour Counter	Total Drive Lift Hours	integer	s	Expressed in seconds. Total time asset is driven with lift being used.
Hydraulic Filter	Hydraulic Filter Clogging	boolean	null	Indicates if a warning is issued for a clogged hydraulic filter.
Hydraulic Pump	Hydraulic Pump Running (Deprecated)	boolean	null	Hydraulic pump running. In case an input is connected, this datapoint is matching with the 'Hydraulic pump' label"
Hydraulic Pump	Hydraulic Pump Running	boolean	null	Hydraulic pump running. In case an input is connected, this datapoint is matching with the 'Hydraulic pump' label"

Hydraulic Pump	Total Hydraulics Hours	integer	s	Expressed in seconds. Total time hydraulics are used.
Impact	Impact X Axis	integer	mG	Accelerometer X-axis value [mG]
Impact	Impact Y Axis	integer	mG	Accelerometer Y-axis value [mG]
Impact	Impact Z Axis	integer	mG	Accelerometer Z-axis value [mG]
Impact	Total Impact Force	integer	mG	Total amplitude of the impact [mG] - as calculated by the device (including Z-filtering)
Impact	Impact Severity	string	null	Severity of an impact
Impact	Impact Direction	string	null	Impact direction
Impact	Impact Location	coordinates	null	Latitude and longitude expressed in decimals
Impact	Impact Speed	decimal	km/h	Expressed in km/h
Key Switch	Key Switch	boolean	null	Key switch is in accessory position. In case an input is connected, this datapoint is matching with the 'Key switch' label
Key Switch	Ignition	boolean	null	Key switch is in run position. In case an input is connected, this datapoint is matching with the 'Ignition' label
Key Switch	Key Switch Voltage	integer	mV	Voltage supplied to the key switch. Expressed in mV.
Key Switch	Total Key Hours	integer	s	Expressed in seconds. Total time the key is on.
Location	Location	coordinates	null	Latitude and longitude expressed in decimals
Location	Altitude	decimal	m	Expressed in m
Location	Speed	decimal	km/h	Expressed in km/h
Location	Location Quality	integer	null	Expressed in values 1 to 5 (5 meaning best quality)
Location	Location Indoor	boolean	null	Indicates if machine is located indoors.
Location	Location Source	string	null	Source of the location data, can be GPS, WIFI, NETWORK
Main Engine	Engine Temperature	decimal	°C	Temperature of the engine.
Main Engine	Engine Temperature Power Reduction Percentage	decimal	%	The current power reduction percentage due to Engine temperature condition, expressed in percentage.
Main Engine	Engine Total Root Mean Squared Current	integer	mA	The total RMS (Root mean squared) current of the engine, expressed in milliamperes.
Main Engine	Main Engine Operating Status	string	null	Indicates the operating status of the engine.
Main Engine	Motor Phase U Current	integer	mA	The current on motor phase U.
Main Engine	Motor Phase V Current	integer	mA	The current on motor phase V.
Main Engine	Motor Phase W Current	integer	mA	The current on motor phase W.
Main Engine	Motor Forward Reverse Command Status	string	null	Indicates the commanded rotation direction of the motor.
Main Engine	Motor Run Command Status	string	null	Indicates the run command status of the motor.
Main Engine Air Filter	Engine Air Filter Differential Pressure	decimal	kPa	Air pressure difference before and after engine air filter, expressed as in kPa.
Main Engine Air Filter	Engine Air Filter Clogging	boolean	null	Indicates if the air filter is clogged.
Main Engine Air Inlet	Engine Air Inlet Temperature	decimal	°C	Expressed in °C, the temperature of the air at the engine air inlet.
Main Engine Alternator	Engine Alternator Charging	boolean	null	Main engine is charging the battery
Main Engine Alternator	Engine Alternator Not Charging Warning	boolean	null	Indicates if a warning is issued because the alternator is not charging.
Main Engine Alternator	Engine Alternator Current	integer	mA	Expressed in milliamperes (mA). The current output of the alternator.
Main Engine Charging	Engine Alternator Charging (Deprecated)	boolean	null	Main engine is charging the battery
Main Engine Controls	Engine Controls Remote Start Enabled	boolean	null	Indicates whether remote start of the engine is enabled.
Main Engine Controls	Engine Controls Control In Automatic Start State	boolean	null	Indicates whether the engine controls are currently in the automatic start state.
Main Engine Controls	Engine Controls Manual Only Mode	boolean	null	Indicates whether the engine is restricted to manual operation only.
Main Engine Controls	Engine Controls Prestart 1 Delay Active When Auto Only	boolean	null	Indicates whether prestart delay 1 is currently active during automatic-only mode.
Main Engine Controls	Engine Controls Prestart 2 Delay Active When Auto Only	boolean	null	Indicates whether prestart delay 2 is currently active during automatic-only mode.
Main Engine Controls	Motor Operation Command Controlled By Communication	boolean	null	Indicates whether the motor operation command is controlled via communication.
Main Engine Controls	Motor Master Frequency Controlled By Analog	boolean	null	Indicates whether the motor master frequency is controlled via an analog input.
Main Engine Controls	Motor Master Frequency Controlled By Communication	boolean	null	Indicates whether the motor master frequency is controlled via communication.
Main Engine Controls	Motor Controlled By External Terminal	boolean	null	Indicates whether the motor is controlled by an external terminal.
Main Engine Controls	Motor Jog Command Active	boolean	null	Indicates whether the motor jog command is active.
Main Engine Coolant	Engine Coolant Low	boolean	null	Main engine coolant level is low
Main Engine Coolant	Engine Coolant Level Percentage	decimal	%	Main engine coolant level percentage
Main Engine Coolant	Engine Coolant Temperature	decimal	°C	Expressed in °C
Main Engine Coolant	Engine Coolant Temperature Warning	string	null	Indicates if the coolant fluid is too hot.
Main Engine Def Tank	Engine DEF Tank Level Percentage	decimal	%	Expressed in percentage e.g. 28
Main Engine Def Tank	Engine DEF Tank Level Height	integer	mm	Height of the diesel exhaust fluid in the tank.
Main Engine Def Tank	Engine DEF Tank Level Warning	string	null	Warning if DEF level is below certain percentage.
Main Engine Def Tank	Engine DEF Tank Level Low	boolean	null	Warning if DEF level is below certain percentage.
Main Engine Def Tank	Engine DEF Tank Level State	string	null	State of the def tank
Main Engine Def Tank	Engine DEF Tank Level	decimal	l	The remaining amount of liters of diesel exhaust fluid left in the tank.
Main Engine Def Tank	Engine DEF Tank Temperature	decimal	°C	Expressed in °C. Temperature of the diesel exhaust fluid in the storage tank.
Main Engine Def Tank	Engine DEF Actual Dosing	decimal	g/h	The actual dosing of the Diesel Exhaust fluid expressed in grams per hour.
Main Engine Def Tank	Engine DEF Doser Pressure	decimal	kPa	The pressure of the doser for Diesel Exhaust Fluid expressed in kPa.
Main Engine Def Tank	Engine DEF Concentration	decimal	%	The concentration of urea in water in the Diesel Exhaust Fluid, expressed as a percentage.
Main Engine Engine Control Unit	Engine ECU Enabled	boolean	null	Indicates if the ECU is enabled or not.
Main Engine Engine Control Unit	Engine ECU Temperature	decimal	°C	Expressed in °C. Temperature of the ECU.
Main Engine Engine Control Unit	Engine ECU Requested Torque	decimal	%	Expressed as a percentage. The requested torque output of the engine.
Main Engine Engine Control Unit	Engine ECU Actual Torque	decimal	%	Expressed as a percentage. The actual torque output of the engine.
Main Engine Engine Control Unit	Engine ECU Load	decimal	%	Expressed as a percentage. The load of the engine (Has different values than actual_torque)
Main Engine Engine Control Unit	Engine ECU Requested Speed Limit	integer	rpm	Expressed in rpm, the requested speed limit of the engine
Main Engine Engine Control Unit	Engine ECU Desired Operating Speed	integer	rpm	Expressed in rpm. An indication by the engine of the optimal operating speed of the engine for the current existing conditions.
Main Engine Engine Control Unit	Engine ECU Pump Time	integer	s	Total pump time expressed in seconds
Main Engine Engine Control Unit	Engine ECU Throttle Position	string	null	The throttle position.
Main Engine Engine Control Unit	Engine ECU Wheel Based Speed	decimal	km/h	The speed of the vehicle which is calculated based on the wheels, expressed in km/h.
Main Engine Engine Control Unit	Engine ECU Reason for a standstill request	string	null	Reasons for standstill requests.
Main Engine Engine Control Unit	Engine ECU Capacitor Bank Temperature	decimal	°C	Expressed in °C. Temperature of the ECU's capacitor banks.
Main Engine Engine Control Unit	Engine ECU Temperature Power Reduction Percentage	decimal	%	The current power reduction percentage due to ECU temperature condition, expressed in percentage.
Main Engine Engine Control Unit	Engine ECU Total Power Reduction Percentage	decimal	%	The current total power reduction percentage due to all conditions, expressed in percentage.
Main Engine Engine Control Unit	Reduced Speed Mode Active	boolean	null	Indicates whether reduced speed mode is active.
Main Engine Engine Control Unit	Engine Target Speed	integer	rpm	The desired target speed of the engine, expressed in RPM.
Main Engine Engine Control Unit	Engine Minimum Speed Setpoint	integer	rpm	The configured minimum allowable speed setpoint of the engine, expressed in RPM.
Main Engine Engine Control Unit	Engine Maximum Speed Setpoint	integer	rpm	The configured maximum allowable speed setpoint of the engine, expressed in RPM.
Main Engine Engine Control Unit	Engine Speed Setpoint In Auto Mode	integer	rpm	The active engine speed setpoint when operating in automatic mode, expressed in RPM.
Main Engine Engine Control Unit	Engine ECU Analog Input 2 Percentage	decimal	%	The value of analog input 2 on the ECU.
Main Engine Engine Control Unit	Engine ECU Analog Input 3 Percentage	decimal	%	The value of analog input 3 on the ECU.
Main Engine Engine Control Unit	Engine ECU Analog Input 4 Percentage	decimal	%	The value of analog input 4 on the ECU.
Main Engine Engine Control Unit	Engine ECU Frequency Command	decimal	Hz	The commanded output frequency of the ECU.
Main Engine Engine Control Unit	Engine ECU Output Current	integer	mA	The output current of the ECU.
Main Engine Engine Control Unit	Engine ECU Output Frequency	decimal	Hz	The actual output frequency of the ECU.
Main Engine Engine Control Unit	Engine ECU Output Power	decimal	W	The output power of the ECU.
Main Engine Engine Control Unit	Engine ECU Output Voltage	integer	mV	The output voltage of the ECU.
Main Engine Engine Control Unit	Controller Parameters Locked	boolean	null	Indicates whether the controller parameters are locked.

Main Engine Errors	Engine Errors	array	null	array with objects e.g. [{"suspect_param_nr":1}, {"suspect_param_nr":2}]
Main Engine Fuel Filter	Engine Fuel Filter Differential Pressure	decimal	kPa	Fuel filter differential pressure, expressed in kPa.
Main Engine Fuel Tank	Engine Fuel Tank Level	decimal	l	Expressed in liters
Main Engine Fuel Tank	Engine Fuel Tank Level Percentage	decimal	%	Expressed in percentage e.g. 28.56
Main Engine Fuel Tank	Engine Total Fuel Used	decimal	l	Expressed in liters
Main Engine Fuel Tank	Engine Total Active Regeneration Hours	integer	s	Cumulative regeneration hours expressed in seconds
Main Engine Fuel Tank	Engine Fuel Consumption	decimal	l/h	Expressed in liters per hour
Main Engine Fuel Tank	Engine Fuel Efficiency	decimal	kW/l	Expressed in kW hour/Liter
Main Engine Fuel Tank	Engine Water In Fuel	boolean	null	Alerts when water in the fuel is detected. Stop the machine immediately.
Main Engine Fuel Tank	Engine Gaseous Fuel Delivery Pressure	decimal	kPa	The pressure of the gaseous fuel delivery expressed in kPa.
Main Engine Fuel Tank	Engine Fuel Delivery Pressure	decimal	kPa	The pressure of the fuel delivery expressed in kPa.
Main Engine Fuel Tank	Engine Gaseous Fuel Pressure	decimal	kPa	The pressure of the gaseous fuel expressed in kPa.
Main Engine Fuel Tank	Engine Total Idle Fuel Used	decimal	l	Expressed in liters, the fuel used while idle
Main Engine Fuel Tank	Engine Fuel Temperature	decimal	°C	Expressed in °C. Temperature of fuel (or gas) passing through the first fuel control system.
Main Engine Fuel Tank	Engine Fuel Low	boolean	null	Indicates if the fuel level is low.
Main Engine Fuel Tank	Engine Fuel Methane Percentage	decimal	%	The amount of methane in the fuel as a percentage of the total fuel mass.
Main Engine Fuel Tank	Engine Total Gaseous Fuel Used Weight	decimal	kg	The total weight of gaseous fuel used.
Main Engine Fuel Tank	Engine Total Gaseous Fuel Used	decimal	m³	The total volume of gaseous fuel used.
Main Engine Fuel Tank	Engine Fuel Total Hours Used	integer	s	Accumulated time of operation of engine when fuel (or gas) was used.
Main Engine Fuel Tank	Engine Total Idle Gaseous Fuel Used	decimal	m³	The total volume of gaseous fuel used while idle.
Main Engine Idle Hours	Engine Total Idle Hours	integer	s	Total engine idle hours in seconds
Main Engine Idle Hours	Engine Total Idle Non Operating Hours	integer	s	Total engine idle non-operating hours in seconds
Main Engine Intercooler	Engine Intercooler Temperature	decimal	°C	Expressed in °C, temperature at intercooler.
Main Engine Manifold	Engine Manifold Intake Temperature	decimal	°C	Expressed in °C. Temperature at the intake of the manifold.
Main Engine Manifold	Engine Manifold Intake Pressure	decimal	kPa	The pressure of the manifold measured at the intake expressed in kPa.
Main Engine Manifold	Engine Manifold Barometric Pressure (Deprecated)	decimal	kPa	The measured barometric/atmospheric pressure expressed in kPa.
Main Engine Manifold	Engine Manifold Inlet Air Pressure	decimal	kPa	The measured air pressure at the inlet expressed in kPa.
Main Engine Particulate Filter	Engine DPF Full	boolean	null	Main engine particulate filter is full
Main Engine Particulate Filter	Engine DPF Lamp Status	string	null	Status of the diesel particulate filter lamp.
Main Engine Particulate Filter	Engine DPF Active Regeneration Status	string	null	Is the active regeneration active? Indicates the state of diesel particulate filter active regeneration. This is an aggregate of bank 1 and bank 2. It is a system status and not individual bank status.
Main Engine Particulate Filter	Engine DPF Status	string	null	Indicates the state of the diesel particulate filter regeneration need and urgency. Possible states can be: Regeneration not needed, Regeneration needed - lowest level, Regeneration needed - moderate level, Regeneration needed - highest level, not available
Main Engine Particulate Filter	Engine DPF Active Regeneration Inhibited Reason	string	null	Is the active regeneration inhibited due to the inhibit switch? This SPN indicates the reason for the diesel particulate filter regeneration not being initiated or being exited prior to completion. When this state becomes active the system will not initiate an active regeneration or will exit an active regeneration. The state provides information that may be
Main Engine Particulate Filter	Engine DPF Time Since Last Active Regeneration	integer	s	Expressed in seconds. Indicates the time since the last active regeneration event of diesel particulate filter.
Main Engine Particulate Filter	Engine DPF Outlet Pressure	decimal	kPa	The pressure of the diesel particulate filter measured at the outlet expressed in kPa.
Main Engine Particulate Filter	Engine DPF Differential Pressure	decimal	kPa	Expressed as in kPa. Exhaust differential pressure measured between the intake and exhaust of a diesel particulate filter
Main Engine Particulate Filter	Engine DPF Ash Exchange Request	boolean	null	Indicates a request to exchange the ash filter.
Main Engine Particulate Filter	Engine DPF Active Regeneration	boolean	null	Indicates that the DPF Active Regeneration is active.
Main Engine Particulate Filter	Engine DPF Active Regeneration Inhibited	boolean	null	Indicates that the DPF Active Regeneration is inhibited.
Main Engine Particulate Filter	Engine DPF Passive Regeneration	boolean	null	Indicates that the DPF Passive Regeneration is active.
Main Engine Particulate Filter	Engine DPF Regeneration Needed	boolean	null	Indicates that the DPF Regeneration is needed.
Main Engine Particulate Filter	Engine DPF Soot Load	decimal	%	Expressed in percentage with a max of 250. Indicates the soot load percent of diesel particulate filter 1. 100% is the level at which active diesel particulate filter regeneration should be triggered. 100% level is the active regeneration trigger level (and if conditions are not favorable for regeneration, soot loading can continue beyond 100%). During no
Main Engine Particulate Filter	Engine DPF Ash Load Percentage	decimal	%	Indicates the ash load percent of diesel particulate filter 1. 100% is the level at which diesel particulate filter ash service should be performed. 100% level is the target ash service interval (and if ash service is not immediately performed, ash loading can continue beyond 100%).
Main Engine Particulate Filter	Engine DPF Active Regeneration Cycles	integer	null	Indicates the total amount of active regenerations.
Main Engine Particulate Filter	Engine DPF Time To Next Active Regeneration	integer	s	Expressed in seconds. Indicates the estimated time to the next active regeneration event of diesel particulate filter.
Main Engine Running	Engine Running	boolean	null	Indicates if the motor is running. In case an input is connected, this datapoint is matching with the 'Engine running!', 'Engine!' or 'Traction!' label"
Main Engine Running	Engine Total Running Hours	integer	s	Total engine running hours in seconds
Main Engine Running	Engine Operating State	string	null	The state of the engine
Main Engine Running	Engine Start Count	integer	null	The number of times the engine has been started
Main Engine Running	Engine Speed	integer	rpm	The speed of the engine in RPM
Main Engine Running	Motor Nominal Speed	integer	rpm	The nominal speed of the motor.
Main Engine Secondary Fuel Tank	Engine Secondary Fuel Tank Level Percentage	decimal	%	Expressed in percentage e.g. 28.56
Main Engine Status Lamps	Engine Stop Lamp	boolean	null	Main engine stop lamp status
Main Engine Status Lamps	Engine Warning Lamp	boolean	null	Warning engine stop lamp status
Main Engine Status Lamps	Engine Protect Lamp	boolean	null	Protect engine stop lamp status
Main Engine Status Lamps	Engine Malfunction Indicator	boolean	null	Main engine malfunction indicator status
Main Engine Turbo Charger	Engine Turbo Charger Intake Pressure	decimal	kPa	The measured air pressure at the intake for the turbo charger expressed in kPa.
Main Engine Turbo Charger	Engine Turbo Charger Intake Temperature	decimal	°C	Expressed in °C. Temperature at the intake of the turbo charger.
Main Engine Vibration	Engine Vibration	boolean	null	Indicates the motor is vibrating
Main Engine Vibration	Engine Vibration Frequency	decimal	Hz	The vibration frequency of the engine, expressed in Hz.
Main Pump	Main Pump System Fluid Level	decimal	m	The fluid level in the pump system, expressed in metres.
Main Pump	Pump Flow Rate	decimal	l/h	The volumetric flow rate of the pump, expressed in litres per hour.
Main Pump	Pump Temperature	decimal	°C	The temperature of the pump, expressed in °C.
Main Pump Discharge Outlet	Main Pump Discharge Outlet Pressure	decimal	kPa	The pressure at the main pump discharge outlet, expressed in kPa.
Main Pump Float	Float 1 Active	boolean	null	Indicates whether float switch 1 is active.
Main Pump Float	Float 2 Active	boolean	null	Indicates whether float switch 2 is active.
Main Pump Secondary Discharge Outlet	Main Pump Secondary Discharge Outlet Pressure	decimal	kPa	The pressure at the main pump secondary discharge outlet, expressed in kPa.
Main Pump Suction Inlet	Main Pump Suction Inlet Pressure	decimal	kPa	The pressure at the pump suction inlet, expressed in kPa.
Mains	Generator Mains Frequency	decimal	Hz	Expressed in hertz
Mains	Generator Mains L1 N Voltage	integer	mV	Expressed in millivolt
Mains	Generator Mains L2 N Voltage	integer	mV	Expressed in millivolt
Mains	Generator Mains L3 N Voltage	integer	mV	Expressed in millivolt
Mains	Generator Mains L1 L2 Voltage	integer	mV	Expressed in millivolt
Mains	Generator Mains L2 L3 Voltage	integer	mV	Expressed in millivolt
Mains	Generator Mains L3 L1 Voltage	integer	mV	Expressed in millivolt
Mains	Generator Mains Voltage Phase Lag Lead	decimal	°	Expressed in degrees
Mains	Generator Mains Phase Rotation	integer	null	The mains phase rotation
Mains	Generator Mains Current Lag Lead	decimal	°	Expressed in degrees
Mains	Generator Mains L1 Current	integer	mA	Expressed in milliampere
Mains	Generator Mains L2 Current	integer	mA	Expressed in milliampere
Mains	Generator Mains L3 Current	integer	mA	Expressed in milliampere
Mains	Generator Mains Earth Current	integer	mA	Expressed in milliampere
Mains	Generator Mains L1 Watts	decimal	W	Expressed in watt
Mains	Generator Mains L2 Watts	decimal	W	Expressed in watt
Mains	Generator Mains L3 Watts	decimal	W	Expressed in watt
Mileage	Total Mileage Since Reset	decimal	m	Total mileage since reset, in meters
Mileage	Total Mileage	decimal	m	Total distance travelled, in meters
Movement	Moving	boolean	null	Indicates whether the machine is moving. In case an input is connected, this datapoint is matching with the 'Moving!' label"

Movement	Forward	boolean	null	Indicates whether the machine is moving forward. In case an input is connected, this datapoint is matching with the 'Forward' label"
Movement	Reverse	boolean	null	Indicates whether the machine is moving backward. In case an input is connected, this datapoint is matching with the 'Reverse' label"
Movement	Travel Mode	boolean	null	Indicates true if the machine is in travel mode. In this mode boom, scissors, outriggers and stabilizers are retracted. This can enable higher safe travel speed.
Movement	Stow State	boolean	null	Indicates true if the machine is in stow state. In this state it is ready for transportation
Oil	Oil Temperature	decimal	°C	Expressed in °C
Oil	Oil Pressure	decimal	kPa	Expressed in kPa
Oil	Oil Exchange Request	boolean	null	Indicates if a oil exchange is needed.
Oil	Oil Level Percentage	decimal	%	Expressed in %, the oil level in the engine.
Oil Filter	Oil Filter Life Remaining	decimal	%	Expressed in % (example 91.2)
Oil Filter	Oil Filter Differential Pressure	decimal	kPa	Oil filter differential pressure, expressed in kPa.
Operator	Operator Presence	boolean	null	Indicates whether the operator is present. Represents state of input configured as 'Operator Presence' or 'Seat Contact' or 'Seat Belt' or 'Foot Switch' or 'Tiller head'"
Operator	Total Operator Presence Hours	integer	s	Expressed in seconds. Total time an operator is present.
Orientation	Pitch	decimal	°	The pitch of the machine in degrees
Orientation	Roll	decimal	°	The roll of the machine in degrees
Orientation	Tilted	boolean	null	Indication if the machine is tilted
Outrigger All	Outriggers On Ground	boolean	null	Indicates all outriggers are on the ground
Outrigger All	Outriggers Level	boolean	null	Indicates if the outriggers are level
Outrigger back left	Outrigger Rear Left On Ground	boolean	null	Indicates the back left outrigger is on the ground
Outrigger back right	Outrigger Rear Right On Ground	boolean	null	Indicates the back right outrigger is on the ground
Outrigger front left	Outrigger Front Left On Ground	boolean	null	Indicates the back left outrigger is on the ground
Outrigger front right	Outrigger Front Right On Ground	boolean	null	Indicates the back right outrigger is on the ground
Parking Brake	Parking Brake Active	boolean	null	Parking brake active
Platform	Platform Height	decimal	m	Expressed in meters. How high the platform is extended.
Platform	Platform Exceeds Minimum Height	boolean	null	Indicates true if the platform is below the minimum safe height.
Platform	Platform Exceeds Maximum Height	boolean	null	Indicates true if the platform is above the maximum safe height.
Platform	Platform Mode	boolean	null	The mode of the platform, true if it is in platform mode, false if it is in ground mode.
Platform	Platform Load Weight	decimal	kg	The load of the platform, expressed in kg.
Platform	Platform Overload Count	integer	null	How many times the machine has been overloaded.
Platform	Platform Tilt Angle X Axis	decimal	°	The tilt angle x of the platform expressed in degrees.
Platform	Platform Tilt Angle Y Axis	decimal	°	The tilt angle y of the platform expressed in degrees.
Platform	Platform Zone	string	null	The platform zone.
Platform	Platform Telescope State	string	null	The telescope state.
Platform	Platform Elevation State	string	null	The elevation state.
Platform Guard	Platform Crush Guard Enabled	boolean	null	Indicates whether the crush guard is activated or not.
Position	Main Boom Horizontal Reach Shutdown	boolean	null	Main boom is in unstable position. Horizontal reach shutdown alert is on.
Position	Main Boom Moving Down	boolean	null	Main boom is moving down
Position	Main Boom Moving Up	boolean	null	Main boom is moving up
Position	Main Boom Transport Position	boolean	null	Main boom is in transport position
Position	Main Boom Working Position	boolean	null	Main boom is in working position
Position	Main Boom Angle	decimal	°	The tilt angle x of the platform expressed in degrees.
Position	Main Boom Extended Length	decimal	m	Expressed in meters, how much the boom is extended.
Power Plug	Battery Charging (Deprecated)	boolean	null	Asset plugged in 230V power
Rear Axle	Rear Axle Strain Gauge Minimum	decimal	%	null
Rear Axle	Rear Axle Strain Gauge Maximum	decimal	%	null
Rear Axle	Rear Axle Strain Gauge Average	decimal	%	null
Scissors position	Scissors Moving Up	boolean	null	Scissors lift is moving up
SCR	Engine SCR Lamp	boolean	null	If true, the Selective Catalytic Reduction system (SCR) is in warning mode.
SCR	Engine SCR Intake NOx	decimal	ppm	Expressed as in ppm. The amount of combined NO and NO2 in the exhaust entering the SCR system.
SCR	Engine SCR Outlet NOx	decimal	ppm	Expressed as in ppm. The amount of combined NO and NO2 in the exhaust entering the SCR system.
SCR	Engine SCR Clean Status	string	null	The status of the diesel particulate filter.
SCR	Engine SCR Forced Regeneration Status	string	null	Indicates the forced execution status of diesel particulate filter regeneration.
SCR	Engine SCR Operator Inducement	boolean	null	Indicates if the operator inducement is active.
SCR	Engine SCR Time Since Last Cleaning	integer	s	Expressed in seconds. Indicates the time since the last cleaning event of the SCR system.
Seat Belt	Seat Belt	boolean	null	Seat belt is fastened.
Secondary boom position	Secondary Boom Transport Position	boolean	null	Secondary boom is in transport position
Secondary boom position	Secondary Boom Working Position	boolean	null	Secondary boom is in working position
Steering	Steering Warning	boolean	null	Indicates if a warning is issued for the steering
Steering	Total Steering Hours	integer	s	Expressed in seconds. Total time steering is used.
Switch controller	Key Switch Ground	boolean	null	Key switch is on ground controller
Switch controller	Key Switch Platform	boolean	null	Key switch is on upper/platform controller
Switch controller	Key Switch Main	boolean	null	Key switch is on main
Switch controller	Key Switch Remote	boolean	null	Key switch is on remote controller
Switch deadman	Joystick Deadman Switch	boolean	null	When the joystick is not pressed, this dead man switch becomes active.
Switch deadman	Foot Switch	boolean	null	Foot switch is active. In case an input is connected, this datapoint is matching with the 'Foot switch' label"
Switch deadman	Seat Contact	boolean	null	Seat contact is active. In case an input is connected, this datapoint is matching with the 'Seat contact' label"
Switch deadman	Seat Belt (Deprecated)	boolean	null	Seat contact is active. In case an input is connected, this datapoint is matching with the 'Seat belt' label"
Switch function	Drive Mode	boolean	null	Function switch is on drive mode
Switch function	Auxiliary Mode	boolean	null	Indicates if the switch function auxiliary is enabled.
Switch function	Function Mode	boolean	null	Indicates if the switch function enabled is enabled.
Switch HOA	HOA Switch Hand Mode Active	boolean	null	Indicates whether the Hand-Off-Auto switch is in hand mode.
Switch HOA	HOA Switch Smart Prime Mode Active	boolean	null	Indicates whether the Hand-Off-Auto switch is in smart prime mode.
Telescope	Main Boom Telescope Fully Retracted	boolean	null	Indicates if the main boom telescope is fully retracted.
Telescope	Main Boom Telescope Override	boolean	null	Overrides the safety system. Operator's inhibition of the hydraulic movement cut-off.
Tiller	Tiller Head Active	boolean	null	Tiller head activated (pulled down). In case an input is connected, this datapoint is matching with the 'Tiller head' label"
Transmission	Transmission Oil Temperature	decimal	°C	Expressed in °C
Transmission	Transmission Oil Pressure	decimal	kPa	Expressed in kPa
Transmission	Transmission Oil Temperature Warning	boolean	null	Indicates if a warning is issued for the transmission oil temperature
Transmission	Transmission Oil Pressure Warning	boolean	null	Indicates if a warning is issued for the transmission oil pressure
Transmission	Transmission Direction Engaged	integer	null	The direction that the transmission is engaged in
Transmission	Transmission Current Gear	integer	null	Current gear of transmission
Weight	Main Boom Max Load Weight	decimal	kg	The maximum load that the main boom can support, expressed in kilograms.