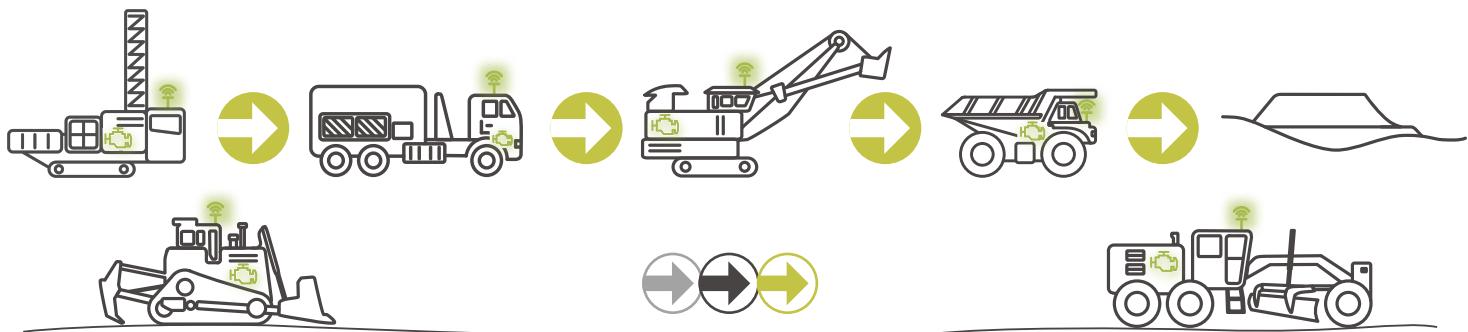


FLEET MANAGEMENT SYSTEM AUXIL



CONDITION MONITORING AND MAINTENANCE MANAGEMENT SYSTEM

PURPOSES

- Lower equipment maintenance and operating costs
- Transition from reactive to proactive maintenance.
Reduction of emergency repairs and downtime
- Improved quality of planned maintenance execution
- Minimized number of equipment abuse cases
- Receiving telemetry data from any equipment from any third-party systems
- Remote condition monitoring
- Custom alerts notifications for any desired parameters change.
Notifications can be sent by email, to the company's corporate system, or to a messenger
- Single digital environment for all systems connected to AUXIL



FORMS

- Configuring OEMs event processing

Map Routes Forms ▾ Reports ▾ GeoWlan Speed Processes Drills Loading Teeth Control Help center MA ▾

Interfaces - Events REFRESH

Interface Level
KOMTRAX Plus J1939 ▾ All (3) ▾

ID	Name	Level...	Description	Notify role	Process
A000N1	Engine Over Speed	1	None	Not selected ▾	<input checked="" type="checkbox"/> EDIT
B@ADMC	Central lubrication system Failure	2	Inform service and then press cancel button.	Not selected ▾	<input checked="" type="checkbox"/> EDIT
B@ADPQ	Central lubrication system grease level too low	2	Inform service and then press cancel button.	Not selected ▾	<input checked="" type="checkbox"/> EDIT

- Configuring custom events based on the correlation of machine parameters

Map Routes Forms ▾ Reports ▾ GeoWlan Speed Processes Drills Loading Teeth Control Help center MA ▾

Custom events ADD RECORD REFRESH

ID	Name	Description	Message	Level	Notify role	Process	Model	Equipment...
3	Idle 5min CAT			Not selected ▾	<input type="checkbox"/>	CAT 785C ▾ All (14) ▾		 EDIT

EXCEPTIONS WINDOW WITH A VEHICLE TECHNICAL CONDITION EVENT

Messages Exceptions(3)



2025-10-01 10:01:55: 57-100 Engine oil pressure below normal; current readings over the last 10 minutes are 24 psi versus the normal 25 psi.

Accept

Reject

EXAMPLE OF A TRUCK TIRE PRESSURE DASHBOARD

Maintenance / Tire Pressure Live ☆ ⌚ Last 15 minutes ⟳ 🔍 ⟳ 🖨️

READY	READY	DOWN	DELAY	READY	READY
47-101 N/A N/A	47-102 116 119	47-103 N/A N/A	47-104 135 125	47-105 N/A N/A	47-106 137 128
N/A N/A N/A N/A	120 123 122 129	N/A N/A N/A	125 128 110 120	N/A N/A N/A N/A	129 124 120 124
<hr/>					
DOWN	READY	READY	READY	READY	READY
47-107 132 N/A	47-108 123 76	47-109 133 121	47-110 124 186	47-111 N/A 120	47-112 117 129
129 128 120 N/A	120 N/A 113 121	134 120 142 138	128 126 126 119	108 108 131 134	124 N/A 129 131

Comments

All pressure values in the report are presented in psi, temperature - in celsius.

- > 140 psi
- 130 - 140 psi
- 110 - 130 psi
- 100 - 110 psi
- < 100 psi

Grey box No data in time range
Blue box No data from sensor

EXAMPLE OF A REPORT WITH DATA FROM THE VIMS CONTROLLER

Maintenance / VIMS Fault Codes ☆ ⌚ Last 15 minutes ⟳ 🖨️

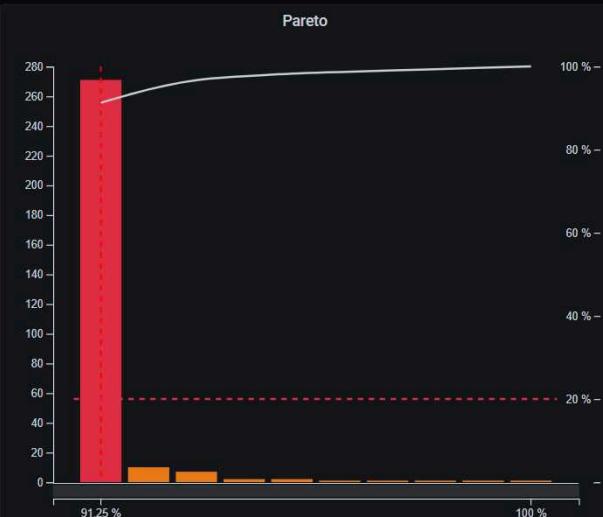
Start Date: 2025-12-15 | End Date: 2025-12-15 | Truck: All | Level: All

Summary								Events Details				
Truck	VIMS CODE ID	Description	MEID	MEID Description	CID	CID DESCRIPTION	FMI	FMI DESCRI	Truck	Description	VIMS EVENT ID	Level
47-109	2916	PAYOUT							47-104	STRG OIL PRES	174	3
47-105	2916	PAYOUT							47-102	STRG OIL PRES	174	3
47-102	2916	PAYOUT							47-104	STRG OIL PRES	174	3
47-108	2916	PAYOUT							47-104	STRG OIL PRES	174	3
47-107	2916	PAYOUT							47-112	THROTTL POS	271	2
47-102	2917	PAYOUT							47-112	THROTTL POS	271	2
47-109	2917	PAYOUT							47-104	STRG OIL PRES	174	3
47-104	2915	PAYOUT							47-104	STRG OIL PRES	174	3
47-105	2915	PAYOUT							47-112	STRG OIL PRES	174	3

Summary by event type

VIMS CODE ID	Description	Level
2916	PAYOUT	2
2915	PAYOUT	2
2917	PAYOUT	2
174	STRG OIL PRES	3
82	FUEL LVL	1
83	FUEL LVL	2
55	RT R SUSP CYL	2
271	THROTTL POS	2
1222	AMB AIR TEMP	2
1516	GROUND SPD	2
883		2
713	RT R BRK TEMP	2

Pareto



EXAMPLE OF A REPORT WITH GRAPHS OF ENGINE PARAMETERS FOR MACHINE 1



	Min	Max	Mean
Body Seating, -	1	1	1
Brake Oil Pressure Left/Front, MPa	13.4	20.1	15.5
Brake Oil Pressure Right/Rear, MPa	13.4	20	15.5
Engine 1 Accelerator Pedal Position 1, %	0	38.8	913
Engine 1 Coolant Temperature, °C	66	68	66.9
Engine 1 Exhaust Gas Port 1 Temperature, °C	969	969	969
Engine 1 Exhaust Gas Port 2 Temperature, °C	969	969	969
Engine 1 Exhaust Gas Port 3 Temperature, °C	101	231	170
Engine 1 Exhaust Gas Port 4 Temperature, °C	100	220	185
Engine 1 Fuel Rate, L/h	0	33.7	9.51
Engine 1 Oil Pressure, kPa	56	372	212
Engine 1 Oil Temperature 1, °C	75	82	79.1
Engine 1 Speed, rpm	656	1531	887
Engine 1 Turbocharger Boost Pressure, kPa	2	4	2.83
Foot Brake Position, -	0	1	0.0833
High Resolution Total Vehicle Distance, m	415403840	415404095	415404009
Live Weight, ton	0	1	0.375
Pitch/Inclinometer, deg	0.797	1.40	116
Retarder Oil Temperature Front, °C	75	87	78.9
Retarder Oil Temperature Rear Right, °C	70	81	74.3
Retarder Position, %	0	32	15.4
Torque Converter Lockup Engaged, -	0	1	0.333
Transmission Current Range, ASCII	12366	12614	12469
Transmission Oil Temperature 1, °C	67	75	70
Wheel-Based Vehicle Speed, km/h	0	7.69	2.41

- Additional parameters can be added to the chart, and custom notifications can be configured when specific criteria are reached
- Notifications could be configured with special instructions for mechanics

EXAMPLE OF A REPORT WITH GRAPHS OF ENGINE PARAMETERS FOR MACHINE 2



	Min	Max	Mean
Body Seating, -	0	1	0.985
Brake Oil Pressure Left/Front, MPa	13.4	22.2	17.0
Brake Oil Pressure Right/Rear, MPa	13.3	22.2	17.0
Engine 1 Accelerator Pedal Position 1, %	0	100	52.6
Engine 1 Coolant Temperature, C	61	82	71.0
Engine 1 Exhaust Gas Port 1 Temperature, C	969	969	969
Engine 1 Exhaust Gas Port 2 Temperature, C	969	969	969
Engine 1 Exhaust Gas Port 3 Temperature, C	100	666	402
Engine 1 Exhaust Gas Port 4 Temperature, C	100	676	404
Engine 1 Fuel Rate, L/h	0	230	99.6
Engine 1 Oil Pressure, kPa	24	456	336
Engine 1 Oil Temperature 1, C	70	102	86.4
Engine 1 Speed, rpm	604	2439	1656
Engine 1 Turbocharger Boost Pressure, kPa	0	150	64.5
Foot Brake Position, -	0	1	0.0110
High Resolution Total Vehicle Distance, m	414898045	414963520	414932144
Live Weight, ton	0	109	62.4
Pitch/Inclinometer, deg	0	10.3	5.42
Retarder Oil Temperature Front, C	68	98	77.5
Retarder Oil Temperature Rear Right, C	65	90	73.2
Retarder Position, %	0	100	4.17
Torque Converter Lockup Engaged, -	0	1	0.782
Transmission Current Range, ASCII	12366	13894	12950
Transmission Oil Temperature 1, C	62	79	70.3
Wheel-Based Vehicle Speed, km/h	0	44.9	14.4
speed (right y-axis)	0.0430	47.7	14.1

It is possible to work with data from different machine interfaces in one place

COMPONENTS

- High-resolution video cameras, LED lights, mounting elements.
- Software for the server and the onboard devices.
- Onboard computer with AI module.
- AUXIL system equipment with standard or high-precision positioning.
- Wi-Fi, LTE, 5G support.
- Integration with onboard systems of excavators for reading the telemetry and performance indicators.

MINING ART

- **Availability** - We use hardware in our solutions that are openly available on the market, which reduces the overall project cost and simplifies subsequent maintenance.
- **Reliability** - All equipment comes with a manufacturer's 1-2 years warranty. Our software meets 99.9% SLA requirements.
- **Flexibility** - Our software is open to modifications tailored to your business needs. You can make adjustments independently.
- **Transparency** - Forget about subscription fees for technical support and services. You pay for the provided services only.
- **Experience** - Since 2015, we have been developing and implementing our own software solutions for the mining industry.

