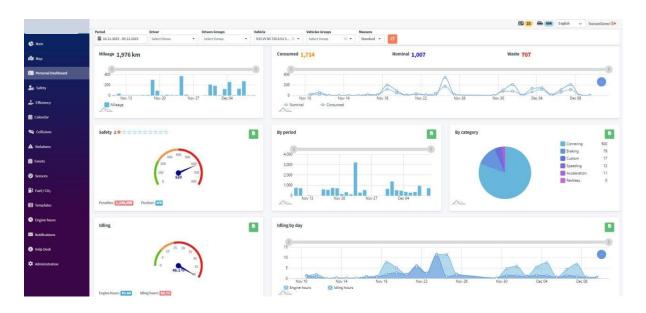


#### FleetInsight

Driver Behaviour Monitoring System

Encouraging Eco-Friendly And Safe Driving.



System Based on Track3

### Key benefits of the system





**Enhanced Safety:** The system assesses driver safety by analyzing collisions, tracking violations, and providing automated custom notifications. This helps in promoting safer driving habits.



**Efficiency Analysis**: The system enables comprehensive analysis of fuel consumption and idling patterns, aiding in the identification of inefficiencies and guiding improvements in driving behavior and vehicle maintenance.



**Performance Monitoring**: It ranks vehicles based on performance metrics, encouraging a culture of accountability among drivers and focusing on environmental consciousness.xx



**Data-Driven Decisions**: By providing a holistic approach to monitoring driver behavior, including detailed insights into various safety and efficiency parameters, the system supports informed decision-making for fleet management.

### Main modules of the system



# 10

#### Safety

Monitor the safety of drivers and vehicles by tracking mileage, driving habits and penalties for various violations.

#### Collisions

Asses collisions based on captured driving data, videos, and acceleration values, up to 10 seconds before and after a collision.



#### Violations

Track vehicle violations with acceleration, braking, cornering, and speeding data, as well as video recordings and location coordinates.



#### Notifications

Stay on top of driver behavior by receiving notifications when a driver's ranking falls below a specified average.



#### Sensors

Receive data from all possible sensors to provide a comprehensive monitoring overview of the vehicle and driving habits.



#### Fuel

Review fuel consumption and compare with nominal values to improve driving habits, reduce costs, and minimize carbon footprint.



#### Idling

Analyse idling, engine performance, and operational time to identify unnecessary idling.



#### Ranking

Easily track and rank vehicles based on driving preferences and violation history per specific time periods.



#### **Over 25 features for comprehensive driver monitoring**

- 1. Main Fleet Overview Dashboard
- 2. Driver/Group Overview Dashboard
- 3. Mileage per Period
- 4. Fuel Consumption Overview
- 5. Safety Score and Ranking
- 6. Safety Score by Period
- 7. Safety Score by Violation Type
- 8. Idling Percentage
- 9. Idling by Period
- 10. Safety Dashboard
- **11.** Violations Dashboard
- 12. Violations List
- 13. Violations Map

- 14. Collision Dashboard
- 15. Detailed Collision Analysis
- 16. Visualization of the Collisions
- 17. Preventive Notification Dashboard
- 18. Calendar Dashboard
- 19. Fuel Consumption Dashboard
- 20. Custom Reporting Templates
- 21. Sensors Dashboard
- 22. Engine Hours Dashboard
- 23. Events Dashboard
- 24. User Management and Administration
- 25. Thresholds configuration

#### Where the system can be used?



**Logistics and Transportation**: For managing fleets, ensuring timely deliveries, and reducing operational costs.



**Insurance**: To assess driver risk profiles, tailor insurance premiums, and promote safer driving behaviors.



**Public Transportation**: For monitoring buses, trams, and other public transport vehicles to enhance passenger safety and service efficiency.



**Rental Car Services**: To track and manage vehicle usage, prevent misuse, and maintain vehicle health.



**Emergency Services**: Like ambulances and fire trucks, to ensure quick and safe response times while adhering to safety standards.

#### Where the system can be used?



**Construction**: To monitor vehicles and heavy machinery for efficient operation and adherence to safety protocols on construction sites.



**Government Fleet Management**: For efficient utilization and monitoring of government vehicles, ensuring compliance with regulatory standards.



**Delivery Services**: Especially for e-commerce, to optimize routes, ensure timely deliveries, and reduce fuel consumption.



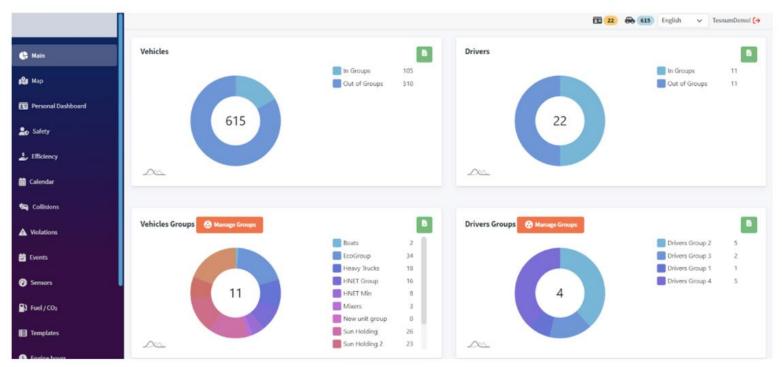
**Waste Management**: To track collection vehicles for route optimization, timely pickups, and compliance with environmental regulations.



**Taxi and Ride-Sharing Services**: To ensure driver safety standards, optimize routes, and enhance passenger experience.



## **General Summary view of the fleet**

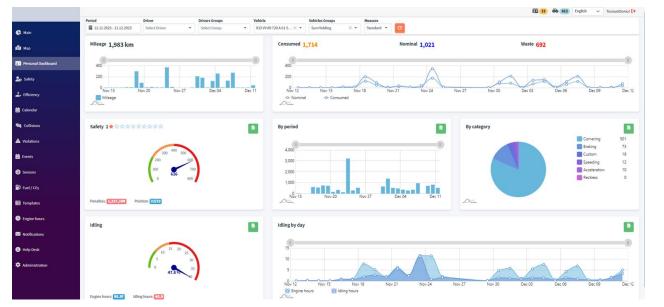


**Create** and **manage** groups of drivers and vehicles, automatically mirrored in the Track3 system.

Eliminating **the need for clients** to switch between Controltech and Track3 for group management.



## **General Summary view of the fleet**



Provides summary overview for selected vehicles and drivers.

Milage, Safety score, Fuel consumption, Idling and its relevant breakdowns.

Calculates **fuel wastage** for targeted improvements in driving behavior and vehicle maintenance.

Cumulative Safety Score for the selected timeframe.

Breakdown by violation types (cornering, braking, custom violations, acceleration, speeding, recklessness). Allows drilling down to understand specific days of driver performance.



### **Safety Dashboard**

										E	E 22 🕀 612 E	nglish v TesnumDemo
	Period	Driver	Drivers Groups	Vehicle		whicles Groups	Measure Standard 👻 🕐					
Main	■ 12.11.2023 - 11.12.2023	Select Driver	Select Group	Select Vehicle	!	Sun Holding 2 X 👻	Standard 👻 C					
🕼 Мар	Safety 1 ★ ☆ ☆ ☆ ☆	***										
Personal Dashboard	NAME	T RANK	T EVENTS COUNT	T MILEAGE	T IDLE(%)	₩ SCORE	T SPEEDING	T ACCELERATION	T BRAKING	T CORNERING	T RECKLESS	Ψ CUSTOM
p Safety	160 CV 61	8.1	41	680 km	48.9	34	25	3	1	5	0	0
Efficiency	37 VP 516	7.7	52	681 km	59	44	28	1	4	11	0	0
Calendar	033 JO 80 576 C 01 Karen Ara	ielyan 7.3	264	2,245 km	42.6	56	6	5	9	36	0	0
	033 VP 80 259 C 01 Hovhanne	s Tu 6.9	203	1,973 km	45.6	69	24	2	2	41	0	0
Collisions	077 OQ 01	6.7	1154	6,061 km	42	75	27	4	7	37	0	0
Violations	033 HH 80 006 C 01 Aram Sha	hnaz 6.6	200	1,217 km	51.2	80	3	8	14	55	0	0
Events	55 RN 755	6.2	946	5,400 km	33.2	98	43	22	12	21	0	0
Sensors	033 KX 80 574 C 01 Arman Kar	hanyan 6.1	549	2,464 km	34	101	31	4	12	54	0	0
Fuel/CO2	158 CV 61	6	122	603 km	45.6	103	4	9	13	77	0	0
Templates	AG 290 RO	6	1546	7,067 km	32.3	106	28	8	13	57	0	0
	033 VY 80 02 A 666	5.6	62	224 km	57.9	125	3	0	2	120	0	0
Engine hours	033 HR 80 760 C 01 Karen Hov	han 5.2	372	1,315 km	56.9	149	13	7	42	87	0	0
Notifications	159 CV 61	4.9	174	600 km	49.6	170	41	1	9	119	0	0
Help Desk	033 NN 80 335 C 01 Gevorg To	vma 4.6	1239	3,137 km	38.3	194	11	7	30	146	0	0
Administration	033 II 80 260 C 01 Robert Petr	osyan 4.5	1285	2,924 km	43.5	210	9	5	45	151	0	0
	033 VO 80 038 C 01 Grigor Hab	ashy 4.5	668	1,946 km	59.6	206	50	7	57	92	0	0
	033 FF 80 125 C 01 Araik Hovh	anni 4.4	1310	2,790 km	38.4	221	16	7	38	160	0	0
								_			_	_

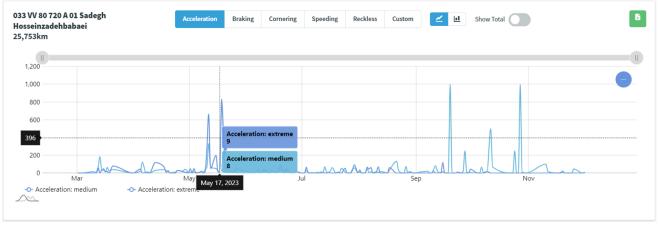
Displays Track3 rank, total violations, mileage, Idling %, and score breakdown by violation types.

Clicking values redirects to detailed Violations dashboard.

Visual cues **highlight** areas of **concern**. Customize grading colors and **score** generation. Delve into **details** by clicking on specific numbers



#### **Violations Dashboard**



**The Violations Dashboard** analyzes violations for drivers, vehicles, or groups, presenting violation scores on a line chart for each type (**Acceleration**, **Braking**, **Cornering**, **Speeding**, **Reckless**) with configurable levels (e.g., medium, extreme). Integrated with **Track3**, the definition of an extreme violation is configured within Track3.



## **Violations List**

								_
Table 🛛 Map								
VEHICLE	DRIVER T	VIOLATION TYPE	DATE T	VALUE T	PENALTY T	SPEED T	ADDRESS	T
033 VV 80 720 A 01 Sadegh	Ara Sargsyan	Acceleration: medium	10/03/2023 23:04:14	0.16	500	60 km/h	А-161, Северная Осетия-Алания, Россия, 2.19	kn
033 VV 80 720 A 01 Sadegh	Ara Sargsyan	Acceleration: medium	12/03/2023 09:55:04	0.16	500	18 km/h	А-161, Северная Осетия-Алания, Россия, Ниж	ни
033 VV 80 720 A 01 Sadegh	Ara Sargsyan	Acceleration: medium	12/03/2023 12:11:54	0.16	500	5 km/h	А-161, Северная Осетия-Алания, Россия, Вер	ж
033 VV 80 720 A 01 Sadegh	Ara Sargsyan	Acceleration: medium	12/03/2023 12:22:26	0.18	500	9 km/h	А-161, Северная Осетия-Алания, Россия, Вер	энь
033 VV 80 720 A 01 Sadegh	Ara Sargsyan	Acceleration: medium	12/03/2023 12:32:08	0.18	500	31 km/h	А-161, Северная Осетия-Алания, Россия, Вер	346
033 VV 80 720 A 01 Sadegh	Ara Sargsyan	Acceleration: medium	12/03/2023 12:33:38	0.16	500	28 km/h	А-161, Северная Осетия-Алания, Россия, 1.59	kn
033 VV 80 720 A 01 Sadegh	Ara Sargsyan	Acceleration: extreme	12/03/2023 12:34:48	0.36	2,000	52 km/h	А-161, Северная Осетия-Алания, Россия, 1.96	kn
033 VV 80 720 A 01 Sadegh	Ara Sargsyan	Acceleration: medium	12/03/2023 12:35:02	0.2	500	77 km/h	А-161, Северная Осетия-Алания, Россия, 1.90	kn
033 VV 80 720 A 01 Sadegh	Ara Sargsyan	Acceleration: extreme	12/03/2023 12:39:44	0.34	2,000	4 km/h	Mtskheta-Stepantsminda-Larsi, Mtskheta-Mtian	eti
033 VV 80 720 A 01 Sadegh	Ara Sargsyan	Acceleration: medium	12/03/2023 12:40:16	0.22	500	6 km/h	Mtskheta-Stepantsminda-Larsi, Mtskheta-Mtian	eti
Count: 928					701,000			
			1 2 3	4 5				> >1

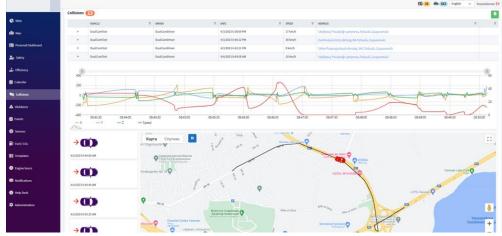
Within the Violation section, users have the capability to select a **specific** period, driver, vehicle and relevant group. The chart illustrates the specific **violations** committed by the driver for the chosen type.



If the necessary dashcam, such as the Teltonika Dual Cam, is connected and configured, users can see a button to view the **photo** and **video** of a violation in the list of violations. Upon clicking this button, a pop-up will open, allowing users to view the moment of the violation.



### **Collision Dashboard**



**Analyzes** collisions based on vehicle hardware data.

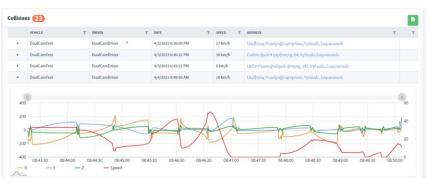
Each accident is **expandable**, providing accelerometer **values** and collision details.

**Animations** on the map depict events before and after the accident.

Displays collision events in milliseconds.

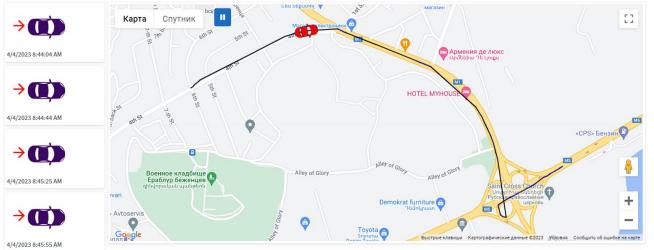
Utilizes **special** sensors, automatically created in Track3.

Shows registered **collisions** with vehicle and driver names, date, time, speed, and accident address. View **photos** and **videos** if configured. Replay collisions on the map for enhanced situational analysis.





### **Collision Dashboard**



Users can open individual collision records for more insights.

Visual representation on the map with an animated sequence illustrating impact **trajectory**, **speed**, **and exact time**.

View impacts, direction, frequency, and angles of vehicle hits.



### **Notifications Dashboard**

					E 22 00 6	12 English	✓ TesnumDemo!
쓵 Main	Notifications	Create Notification					
🕼 Мар	Active Inactive						
Personal Dashboard	VEHICLES/DRIVERS	▼ PASSED DAYS ==	Т МІЛІМИМ КМ	T RANK RANGE	DAYS OF THE WEEK	T HOURS	٣
o Safety	Vehicles 1 Vehicles Groups 2 Drivers 1 Drivers Groups 1	5	Passed Days	0 - 5	Monday Wednesday	24	00
Efficiency	Drivers 21	7	100	0 - 5	Monday Wednesday	10	00
Calendar	Vehicles 565	7	10	0-6	Monday	10	00
G Collisions							

Set up notifications based on rank criteria.

**Define** rank ranges, passed days, minimum kilometers, and active days.

System reviews selected vehicles meeting criteria and sends emails.

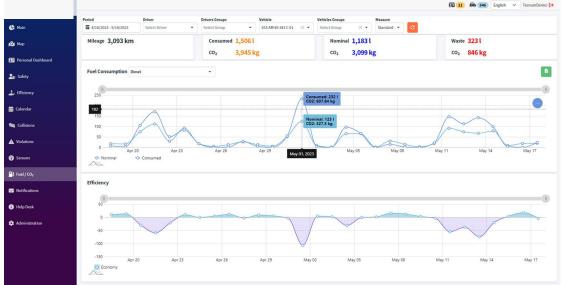
Information compiled into an **Excel** file.

Automatically send to the user's designated email address.

Enables proactive monitoring and updates on vehicle and driver performance.



## **Fuel Consumption Dashboard**



Vital for fleet management, offering a **comprehensive** view of fuel efficiency. Displays total mileage, actual fuel consumption, and calculates **CO2** emissions, based on fuel type. Assists in assessing the fleet's ecological footprint. Compares '**Consumed'** (actual) with '**Nominal'** (expected) values.

#### Provides insights for cost-saving measures and budget optimization.

Chart background color aids in quick visual analysis.

Efficiency section illustrates the difference between Consumed and Nominal.

Positive values denote efficient days, while negative values indicate higher consumption.



## **Custom Reporting Templates**

🗿 Мар	Period	Vehicle	Vehicles Groups	Mee	isure							
	■ 12.11.2023 - 11.12.2023											
Personal Dashboard	12.11.2023 - 11.12.2023	Select Vehicle	X      Sun Holding	× • Sti	andard 👻 C							
p Safety	Templates(beta	a) ⊕ Create										
	NAME				т	TEMPLATE					Ŧ	
Efficiency	test report					template.xlsx					0	0
Calendar												
		~ <u>5</u> , ~ .			templa	ite (1) - Excel			Arthur Karapetya	n 🔍 E	8 -	
Collisions	File Home Inser	rt Page Layout Forr			♀ Tell me what yo							
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vents	Paste B I	U v 🗄 v 💩 v	A • = = = =	-			Conditional Forma	tas Cell Ins	ert Delete Format	Sort	& Find &	Add-ii
			_				Formatting ~ Table		, v v	📌 🎽 Filter	r * Select *	
	Clipboard Fa	Font $\times \sqrt{-f_x} = N1$		Alignment	ge & Center 👻 💲 🔪					Filter Edit	r * Select *	
Sensors	Clipboard Ts P15 • : H I		rs.				Formatting ~ Table		, v v	📌 🎽 Filter	r * Select *	
Sensors Fuel / CO2	Clipboard FS P15 · · · · H I 1 2	X X fx =N1	5+015	Alignment M	F <sub>2</sub>	0	Formatting ~ Table Styles P	Q Q	Cells R	Filter Edit	r × Select × ing T	Add-in
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Sensors Suel / CO2 Femplates	Clipboard Fs P15 : H I 2 3 20ST (R\$) CO 4 out peak time NG (nat 5 321.33 (kg)M	X √ fx =N1 J K Z emissions tur/22/kg NG bu:00h up t	5+015 ENERGY CONSUMPTION tet to 16:39h and 20:00h to 2 0) #VALUET	Alignment M	N Peak time #VALUE!	O O O O O O O O O O O O O O O O O O O	P P total #VALUE!	V Styles V Q Peak time #VALUE!	Cells R ERGY COST - R\$ out peak time #VALUE!	<ul> <li>Filter Edit</li> <li>S</li> <li>total</li> <li>#VALUE!</li> </ul>	r × Select × ing T CO2 EMISS	Add-in
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Empowers users to **create intricate report** templates in Excel format.

#### Allows inclusion of complex formulas and styling supported by Excel.

Enables **design** and **implementation** of complex reports without additional expenses. **Specific rules** for template creation ensure seamless integration. Provides a flexible yet structured framework for **diverse reporting** needs. Not only addresses immediate client demands but **also anticipates future** needs. Puts report customization **directly** into the hands of users.



## **Calendar Dashboard**

						22 🕀 617	English v TesnumDemo
	Period	Driver	Drivers Groups	Vehicle	Vehicles Groups	Measure	
Main	01.03.2023 - 01.12.2023	Select Driver 👻	Select Group 👻	033 W 80 720 A 01 S × 👻	Select Group X 👻	Standard - C	
ј Мар	Safety Calendar						
Personal Dashboard	< > TODAY			March 2023			🖽 Month 🗮 Year
p Safety	SUN	MON	TUE	WED	ТНИ	FRI	SAT
	26	27	28	1 Safety 180	2	3 Safety 240	4
Efficiency				Cornering 100		Cornering 150	
				Custom 80		Speeding 50	
Calendar				+4 more		+ 4 more	
Collisions	5	6	7	8	9	10	11
Collisions						Safety 280	Safety 149
Violations						Cornering 178 Braking 53	Cornering 83 Custom 66
VIOLALIONS						+4 more	+4 more
Events							
	12 Safety 563	13 Safety 429	14 Safety 590	15 Safety 556	16 Safety 349	17 Safety 292	18 Safety 250
Sensors	Cornering 260	Cornering 281	Cornering 375	Cornering 273	Cornering 229	Cornering 143	Cornering 115
School	Braking 146	Braking 62	Braking 110	Braking 137	Braking 55	Braking 74	Speeding 66
F	+4 more	+ 4 more	+4 more	+4 more	+4 more	+ 4 more	+ 4 more
Fuel / CO2							

Breakdown of Safety and Violations data, visible on the calendar **for each day** in the selected period.

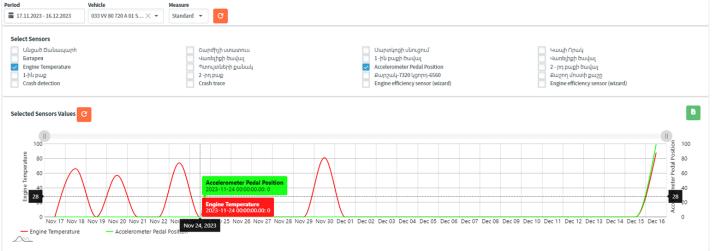
Switch between month and year views.

Inspect safety scores and individual violations for each day.

Click on the corresponding number to navigate to the violations dashboard.



### **Sensors Dashboard**



Displays all registered sensors for the chosen vehicle.

Users can select multiple sensors for a single line chart.

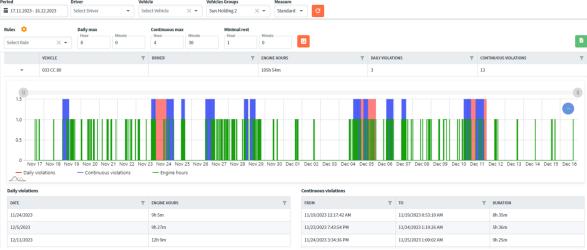
Enables visualization of different sensor types (e.g., speed, temperature, fuel) on the same chart.

Line chart uses a **distinctive** approach with the X-axis representing the **timeline** and individual Y-axes for each selected sensor.

Facilitates comprehensive analysis of sensor values for each moment within the chosen period.



### **Engine Hours Dashboard**



**Configure** driving hours and rest parameters.

**Set rules** for maximum daily driving hours, continuous driving, and minimal rest.

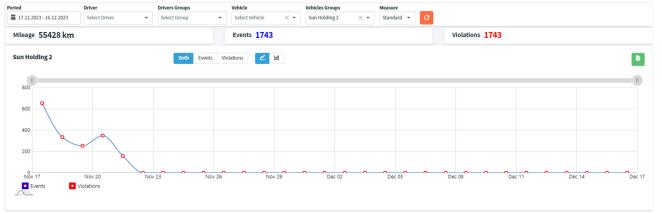
**Retroactively analyze** driving hour violations.

Adjust parameters and **recalculate** violations. Navigate to rules dashboard for near **real-time execution**.

Receive **email** notifications for engine hour specific custom violations. Send commands to GPS trackers for **specific** actions. **Create rules** for various violation types with specific actions. Implement **custom scenarios** based on unique requirements.



### **Events Dashboard**



Events can be logged with or without categorization as violations. Centralized dashboard for **registered events** and associated violations. Fleet operators can establish **custom** rules.

Tailored rules for local requirements or industry-specific scenarios.



#### Efficiency Dashboard General Efficiency



**Total Hours:** Calculates the total number of hours in the selected period, multiplied by the number of items in the chosen group for group-level monitoring.

**Engine Hours:** Reflects the total number of hours the engine (or engines, in the case of a group) has been operational.



**Idling:** Highlights the total engine hours and calculates the percentage of idling engine hours against the total engine hours.