

REMOTE ACCESS OF ENGINE HOURS

Remotely accessing engine hours results in increased fleet efficiencies and lowers maintenance costs.

Waiting for assets to return to the workshop for a diagnostic download can be time consuming, inefficiency, and with out proper scheduling may lead to costly errors.

All assets including prime movers, light trucks, agricultural machinery and static equipment can benefit from remote access to engine hours.

zzoota devices provide remote access solutions for J1939 and OBDII protocols.



SQUARE3X

The Square3X is compact, slim and discretely plugs into the vehicle OBDII socket.

For heavy vehicles using J1939 protocols a 9pin adaptor can be used.

Splitter cables can be custom made for OBDII and J1939 sockets. They allow the device to be neatly installed behind panels and provide easy, unobstructed access to the sockets when in the workshop.

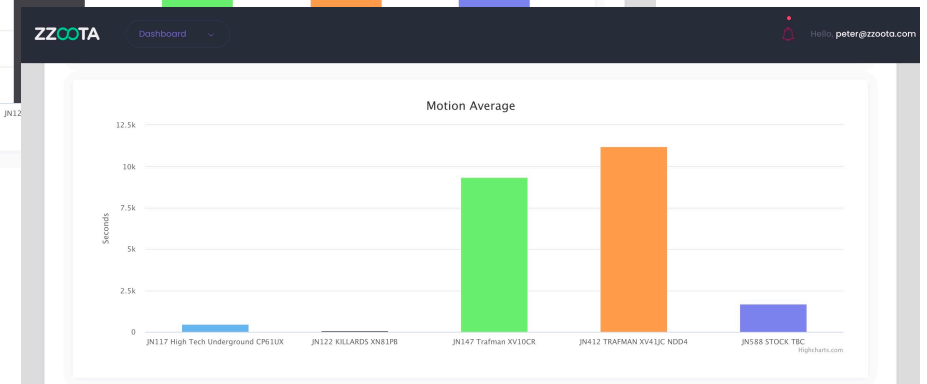
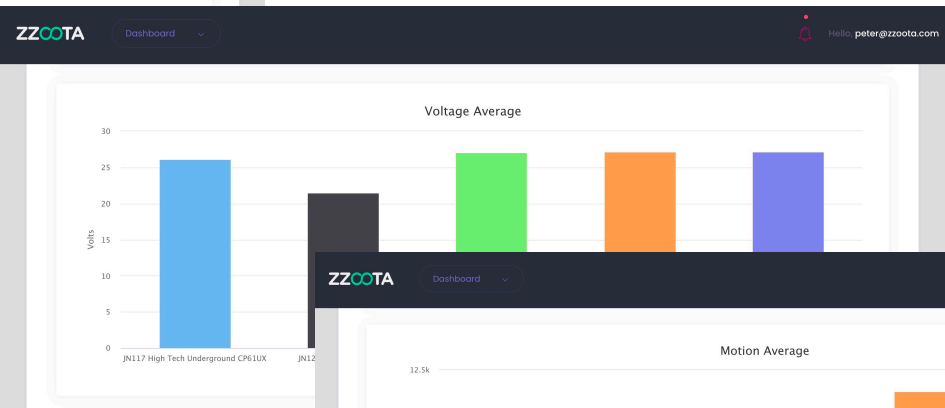
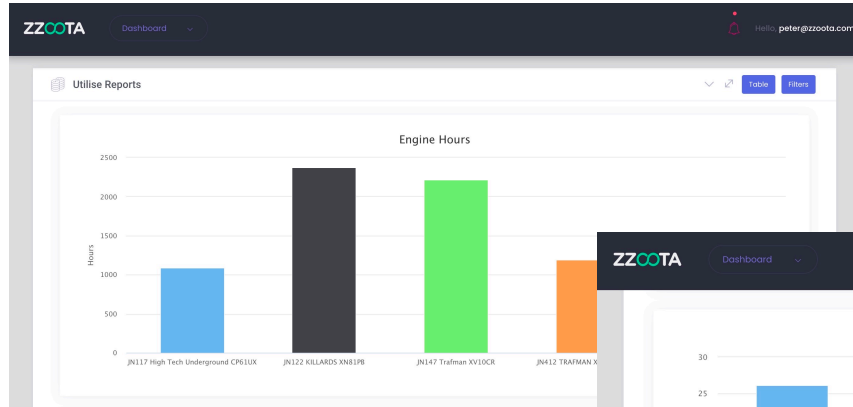


UTILISE

Our Edge platform brings all your important data together in one place on our Utilise solution.

Track engine hours and other parameters in table and graphic presentations.

Device Name	Device Group	Engine Hours	Fuel Burn Average	Voltage Average	RPM Average	Temperature Average	Motion Average	Total Idle Time
JN122 KILLARDS XM81PB	Ungrouped	2377.7	0	21.5	122.88	21.22	1min 36s	0hrs 0min 0s
JN147 Trafman XV10CR	Ungrouped	2217.9	0	27.04	0	27.02	2h 35min 47s	0hrs 1min 47s
JN412 TRAFMAN XV41JC NDD4	Ungrouped	1187.05	0	27.13	10.55	27.1	3h 6min 55s	0hrs 2min 24s
JN117 High Tech Underground CP6LUX	Ungrouped	1090.65	0	26.13	0	26.01	8min 10s	0hrs 1min 12s
JN588 STOCK TBC	Ungrouped	121.45	8.14	27.12	411.89	27.03	28min 26s	0hrs 0min 0s



DATA LOG

Engine hours and other parameters can be viewed as raw data on the zzootaLink platform or viewed and exported as a report.

Latitude	Longitude	Altitude	Speed	status	ignition	event	odometer	coolanttemp	rpm	averagespeed	fuelconsumption	tripodometer	power	fuel	rssi	hdp	vin	sequence	distance	totaldistance	motion	valid	enginehours
-34.04235	150.80429	74	9	52224	true	1	9000								0	11		52	1.44	17479439.23	true	true	1002829
-34.0424	150.80426	74	13	52224	true	1	13000	24	1303	3	85.88	16	14.12	13.6	0	11	WFOXXXTTGXHP40252	53	6.2	17479445.43	true	true	1002831
-34.0425	150.80417	74	9	52224	true	1	10000								0	11		54	13.85	17479459.28	true	true	1002836
-34.04248	150.80415	73	0	52224	true	1	3000	0	0	7	41.92	19	14.15	13.6	0	11	WFOXXXTTGXHP40252	55	2.89	17479462.17	false	true	1002841
-34.04247	150.80422	75	10	52224	true	1	9000								0	10		56	6.54	17479468.71	true	true	1002841
-34.04234	150.80427	76	20	52224	true	1	18000	26	2669	8	132.44	25	14.14	13.6	0	11	WFOXXXTTGXHP40252	57	15.15	17479483.86	true	true	1002844

Report type: Object history 01-01-2021 00:00:00 - 01-02-2021 00:00:00 (UTC +10)


Device: zzoota Demo

Device	Time	Latitude	Longitude	Address	Altitude	Speed	status	ignition	event	odometer	coolanttemp	rpm	averagespeed	fuelconsumption	tripodometer	power	fuel	rssi	hdp	vin	sequence	distance	totaldistance	motion	valid	
zzoota Demo	01-01-2021 00:08:10	-28.02007	153.39271	-28.02007*, 12 m	153.39271*	0	kph	32768	false	0	0	215	65535	0	0	0	12.48	102	20	9	JTMHV05J404221597	1	0	21930052.88	false	true
zzoota Demo	01-01-2021 00:08:10	-28.02007	153.39271	-28.02007*, 12 m	153.39271*	0	kph	32768	false	2	0	0	0	0	0	0	12.48	102	20	9	JTMHV05J404221597	2	0	21930052.88	false	true
zzoota Demo	01-01-2021 00:38:12	-28.02004	153.39269	-28.02004*, 8 m	153.39269*	0	kph	32768	false	0	0	215	65535	0	0	0	12.48	102	21	8	JTMHV05J404221597	1	3.87	21930056.75	false	true
zzoota Demo	01-01-2021 00:38:12	-28.02004	153.39269	-28.02004*, 8 m	153.39269*	0	kph	32768	false	2	0	0	0	0	0	0	12.48	102	21	8	JTMHV05J404221597	2	0	21930056.75	false	true
zzoota Demo	01-01-2021 01:08:14	-28.01998	153.39268	-28.01998*, 15 m	153.39268*	0	kph	32768	false	0	0	215	65535	0	0	0	12.47	102	19	9	JTMHV05J404221597	1	6.73	21930063.48	false	true
zzoota Demo	01-01-2021 01:08:14	-28.01998	153.39268	-28.01998*, 15 m	153.39268*	0	kph	32768	false	2	0	0	0	0	0	0	12.47	102	19	9	JTMHV05J404221597	2	0	21930063.48	false	true
zzoota Demo	01-01-2021 01:38:16	-28.02008	153.39278	-28.02008*, 6 m	153.39278*	0	kph	32768	false	0	0	215	65535	0	0	0	12.46	102	21	9	JTMHV05J404221597	1	14.81	21930078.29	false	true
zzoota Demo	01-01-2021 01:38:16	-28.02008	153.39278	-28.02008*, 6 m	153.39278*	0	kph	32768	false	2	0	0	0	0	0	0	12.46	102	21	9	JTMHV05J404221597	2	0	21930078.29	false	true
zzoota Demo	01-01-2021 02:08:18	-28.02008	153.39274	-28.02008*, 3 m	153.39274*	0	kph	32768	false	0	0	215	65535	0	0	0	12.46	102	22	10	JTMHV05J404221597	1	3.92	21930082.21	false	true
zzoota Demo	01-01-2021 02:08:18	-28.02008	153.39274	-28.02008*, 3 m	153.39274*	0	kph	32768	false	2	0	0	0	0	0	0	12.46	102	22	10	JTMHV05J404221597	2	0	21930082.21	false	true
zzoota Demo	01-01-2021 02:38:20	-28.02001	153.39277	-28.02001*, 4 m	153.39277*	0	kph	32768	false	0	0	215	65535	0	0	0	12.45	102	20	8	JTMHV05J404221597	1	8.31	21930090.52	false	true
zzoota Demo	01-01-2021 02:38:20	-28.02001	153.39277	-28.02001*, 3 m	153.39277*	0	kph	32768	false	2	0	0	0	0	0	0	12.45	102	20	8	JTMHV05J404221597	2	0	21930090.52	false	true
zzoota Demo	01-01-2021 03:08:22	-28.02001	153.39277	-28.02001*, 12 m	153.39277*	0	kph	32768	false	0	0	215	65535	0	0	0	12.44	102	19	9	JTMHV05J404221597	1	6.86	21930097.38	false	true
zzoota Demo	01-01-2021 03:08:22	-28.02001	153.39277	-28.02001*, 12 m	153.39277*	0	kph	32768	false	2	0	0	0	0	0	0	12.44	102	19	9	JTMHV05J404221597	2	0	21930097.38	false	true
zzoota Demo	01-01-2021 03:38:24	-28.02004	153.39271	-28.02004*, 16 m	153.39271*	0	kph	32768	false	0	0	215	65535	0	0	0	12.43	102	18	9	JTMHV05J404221597	1	3.47	21930100.85	false	true
zzoota Demo	01-01-2021 03:38:24	-28.02004	153.39271	-28.02004*, 16 m	153.39271*	0	kph	32768	false	2	0	0	0	0	0	0	12.43	102	18	9	JTMHV05J404221597	2	0	21930100.85	false	true
zzoota Demo	01-01-2021 04:08:26	-28.02003	153.39277	-28.02003*, 10 m	153.39277*	0	kph	32768	false	0	0	215	65535	0	0	0	12.43	102	19	10	JTMHV05J404221597	1	5.99	21930106.84	false	true

ALERTS

Service Alerts can be produced to advise of upcoming scheduled maintenance.

In this example a Scheduled Service alert will be emailed to the nominated email address when the 250 hour service has 50 hours to run. API access is also available to seamlessly integrate into your existing software platforms.

 Add service

Service **Checklists**

Name:
Scheduled Service

Expiration by:
Engine hours

Interval:
250

Last service:
2250

Trigger event when left:
50

Renew after expiration

Current odometer: 1073.8402800000001 Current engine hours: 2377.95

Description:
250 Hourly Service

Email:
workshop@zzoota.com

Save Cancel

MAINTENANCE

The Maintenance page shows all the Alerts that have been set for;

- Maintenance
- Pre-start Checklist
- Service Checklist

This extract shows examples of scheduled hourly services. Using familiar traffic light colour coding we can see quickly when the service is due and the engine hours remaining.

Device	Name	Distance	Distance Left	Engine hours	Engine hours Left
ST Test	SERVICE REMINDER	-	-	<div style="width: 100%;"><div style="width: 100%;"></div></div> 100%	250Hours
For WA Sample (Square3X)	Yamaha EX Deluxe	-	-	<div style="width: 100%;"><div style="width: 100%;"></div></div> 100%	116Hours
JN42 Safe Excavations XN7	250 HOUR SERVICE	-	-	<div style="width: 100%;"><div style="width: 100%;"></div></div> 100%	726Hrs
863922032412612	250 hour service	-	-	<div style="width: 99%;"><div style="width: 99%;"></div></div> 99%	247Hrs
JN41 TRAF XV4 NDD4	250 HOUR SERVICE	-	-	<div style="width: 64%;"><div style="width: 64%;"></div></div> 64%	160Hrs
90-2 Superstructure	90-2 Superstructure	-	-	<div style="width: 24%;"><div style="width: 24%;"></div></div> 24%	122h
Toyota 510	200 Hour Service	-	-	<div style="width: 17%;"><div style="width: 17%;"></div></div> 17%	34Hours
400-1 superstructure	400-1 superstructure	-	-	<div style="width: 13%;"><div style="width: 13%;"></div></div> 13%	64hours
Test Device	Engine Hours Test Service	-	-	<div style="width: 0%;"><div style="width: 0%;"></div></div> 0%	-
Space10X-866425037535525	Pre Start Checklist	<div style="width: 82%;"><div style="width: 82%;"></div></div> 82%	82Km	-	-
Space10X-866425037535525	50K Service	<div style="width: 7%;"><div style="width: 7%;"></div></div> 7%	1072Km	-	-

REPORTS

Over 25 useful reports may be produced to monitor your assets.

Report type: Engine hours Daily 01-01-2021 00:00:00 - 01-02-2021 00:00:00 (UTC +10)

Device	Date	From (h)	To (h)	Difference (h)
zzoota Demo	01-01-2021	540.52	542.88	2.36
zzoota Demo	02-01-2021	542.88	542.99	0.11
zzoota Demo	03-01-2021	542.99	543.74	0.75
zzoota Demo	04-01-2021	543.74	544.01	0.27
zzoota Demo	05-01-2021	544.01	548.3	2.29
zzoota Demo	06-01-2021	548.3	547.33	-1.03
zzoota Demo	07-01-2021	547.33	548.41	1.08
zzoota Demo	08-01-2021	548.41	548.98	0.47
zzoota Demo	09-01-2021	548.98	549.91	1.03
zzoota Demo	10-01-2021	549.91	549.91	0
zzoota Demo	11-01-2021	549.91	550.97	1.06
zzoota Demo	12-01-2021	550.97	553.12	2.15
zzoota Demo	13-01-2021	553.12	553.99	0.87
zzoota Demo	14-01-2021	553.99	558.71	4.72
zzoota Demo	15-01-2021	558.71	558.34	-0.63
zzoota Demo	16-01-2021	558.34	560.26	0.92
zzoota Demo	17-01-2021	560.26	560.89	0.63
zzoota Demo	18-01-2021	560.89	562.21	1.32
zzoota Demo	19-01-2021	562.21	563.89	1.48
zzoota Demo	20-01-2021	563.89	564.32	0.63
zzoota Demo	21-01-2021	564.32	566.49	2.17
zzoota Demo	22-01-2021	566.49	568.01	1.52
zzoota Demo	23-01-2021	568.01	569.47	1.46
zzoota Demo	24-01-2021	569.47	571.48	2.01
zzoota Demo	25-01-2021	571.48	573.11	1.63
zzoota Demo	26-01-2021	573.11	574.6	1.49
zzoota Demo	27-01-2021	574.6	575.33	0.73
zzoota Demo	28-01-2021	575.33	576.92	1.59

Report type: Ignition ON/OFF 01-01-2021 00:00:00 - 01-02-2021 00:00:00 (UTC +10)

Device: zzoota Demo

Ignition ON/OFF	Event time	Speed	Trip distance	Engine work	Stopped for	Driver	Location
On	14:07:18	29 kph	1.58 Km	3min 0s	15h 59min 8s		-28.02007°, 153.39271°
On	14:10:18	94 kph	2.75 Km	6min 2s	9min 33s		-28.02002°, 153.39150°
On	14:19:51	94 kph	2.75 Km	6min 2s	1min 1s		-28.02081°, 153.39183°
On	14:24:53	15 kph	0.3 Km	1min 0s	6min 31s		-27.99929°, 153.37881°
On	14:25:54	20 kph	0.35 Km	1min 25s	1min 5s		-28.00007°, 153.37881°
On	14:27:03	43 kph	3.23 Km	4min 35s	27min 2s		-27.99939°, 153.37839°
On	14:46:37	78 kph	78.05 Km	56min 30s	1h 19min 1s		-28.02001°, 153.39257°
On	15:07:29	27 kph	1.63 Km	3min 20s	16min 56s		-27.47326°, 153.16022°
On	17:25:10	92 kph	2.72 Km	4min 20s	1h 39min 8s		-27.46882°, 153.15131°
On	17:47:56	75 kph	75.66 Km	55min 30s	9min 46s		-28.01400°, 153.39320°
On	19:27:04	45 kph	5.08 Km	6min 56s	1min 40s		-28.01197°, 153.39360°
On	20:22:34	46 kph	4.8 Km	6min 0s	3h 35min 29s		-28.02004°, 153.39273°

Report type: Routes 01-01-2021 00:00:00 - 01-02-2021 00:00:00 (UTC +10)

Device: zzoota Demo



Route start:	01-01-2021 00:08:10	Fuel consumption (GPS):	221.01 Liters
Route end:	31-01-2021 23:54:46	Fuel cost (GPS):	309.41
Route length:	2009.16 Km	Engine hours:	41h 13min 48s
Move duration:	43h 57min 27s	Engine work:	38h 49min 25s
Stop duration:	699h 49min 6s	Engine idle:	2h 24min 23s
Top speed:	124 kph	Odometer:	23930.89 Km
Average speed:	41 kph		
Overspeed count:	0		
Stop count:	346		

Report type: Checklist report 01-01-2021 00:00:00 - 01-02-2021 00:00:00 (UTC +10)

Device: zzoota Demo

Status	Outcome	Activity	Time completed
Service: 200 Hour Service			
Checklist: 200 Hours			
Time completed: Incomplete			
Signature:			
Notes:			
Incomplete	n/a	Check oil	-
Incomplete	n/a	Check filter	-
Incomplete	n/a	kjokjokjokj	-
Incomplete	n/a	dsdsdsd	-
Service: Test			
Checklist: Test Template			
Time completed: Incomplete			
Signature:			
Notes:			
Incomplete	n/a	Test	-
Incomplete	n/a	Test	-
Incomplete	n/a	Test	-
Service: Pre-Start			
Checklist: Daily Pre-Start XYZ Vehicle			
Time completed: Incomplete			
Signature:			
Notes:			

END OF PRESENTATION