

The Connected Car

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WirelessCar

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WirelessCar, an operator of telematics services for the automotive industry

- Located in Gothenburg
- Service delivery on 4 continents, 2 business areas
- Owned by Volvo Group



Prime Customers

Group

Australia, Middle East



Freude am Fahren

Europe



Europe, Australia,



US, Europe, Korea



Connected vehicles, who cares ?

Authorities

General interests



Authorities

- Emergency services
 - eCall
- Road tolls
- Traffic management
 - Floating car data
- Environmental impact
 - Reduction of transportation
 - Monitoring
- Insurance companies
 - Stolen Vehicle Tracking
 - Pay-as-you-drive

Connected vehicles, who cares ?

Authorities

General interests



Cost savings

OEMs

OEM's

- Remote diagnostics
- Vehicle software management
- Service history
- Supply chain management, etc.
- CRM

Connected vehicles, who cares ?

Authorities

General interests



Cost savings

OEMs

Commercial benefits

Commercial End-users

Commercial End-Users

- **Vehicle management**
 - How is my truck
 - Fuel reports
 - Environmental reports
- **Transport management**
 - Where is my truck
 - Messaging/dispatching
 - Sequencing
- **Driver management**
 - Driver time regulation
 - Incentives

Connected vehicles, who cares ?

Authorities

General interests

Private End-users

Personal benefits



Cost savings

OEMs

Commercial benefits

Commercial End-users

Private End-Users

- Personal safety and security, ADAS
- Roadside assistance
- Concierge services
- Navigation and traffic information
- Entertainment, news, etc.

Alle hersteller mit Autos im Internet



Mercedes-Benz



TOYOTA



Alle hersteller mit Internet im Auto



BMW Online



Volvo On Call

- SOS/Emergency (e-call)
Automatic/manual
- Breakdown assistance (b-call)
- Remote door unlock
- Car alarm alert
- Stolen vehicle tracking
- HF Telephony

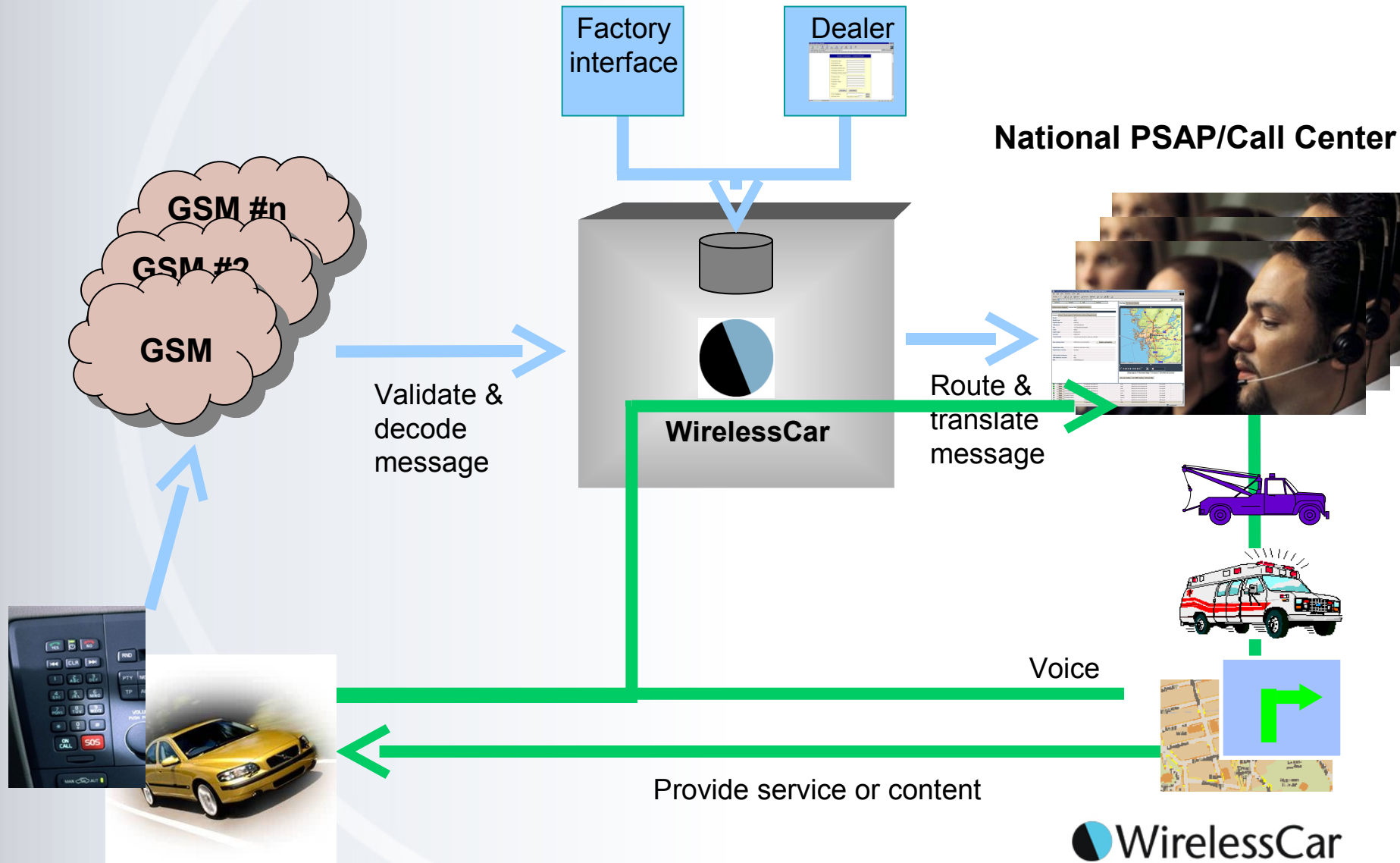


Embedded SIM

Customer SIM



European set-up Volvo On Call



Telematics Workstation – A web based Call Center tool

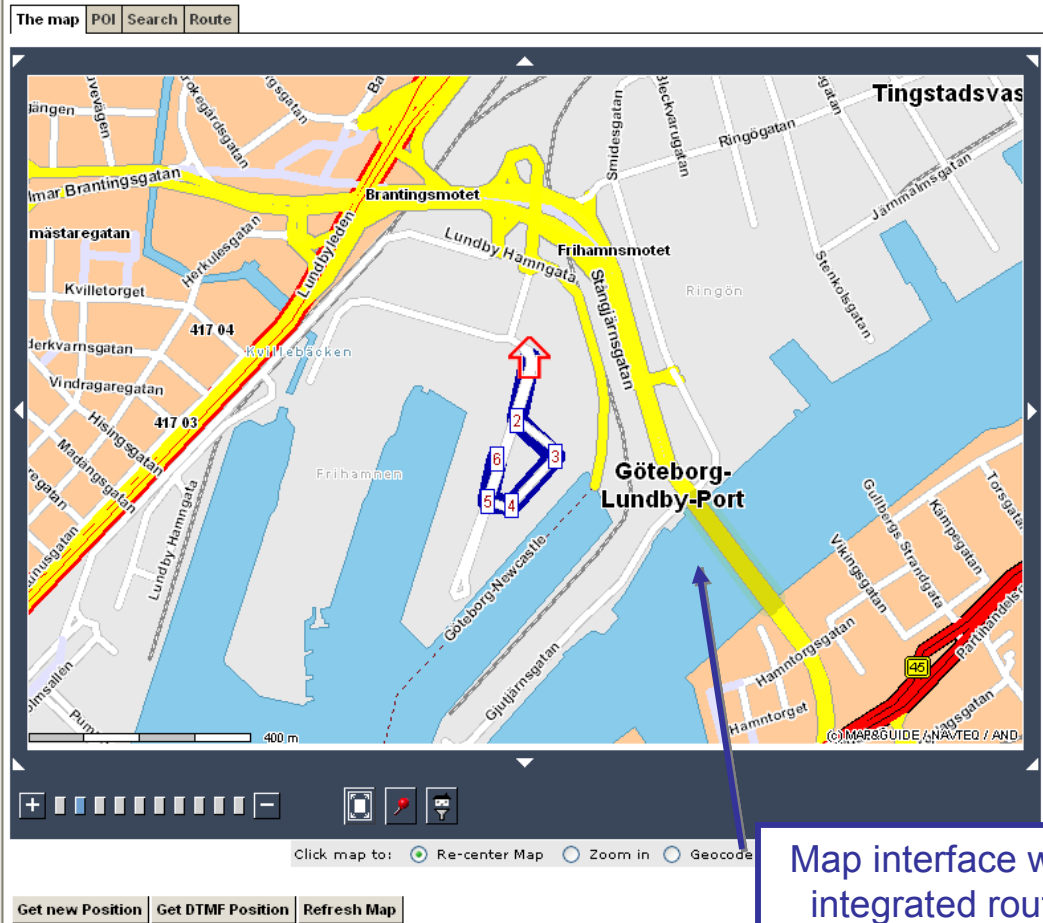
Service Session

Active Service Request General Info Completed Services

General Info

General	Owner	Subscription	TEM	Service history	Waypoint list
Model	V70				
Model Year	2001				
Registration nr	WIRELESSCAR				
TEM phone	+46768622202				
VIN	YV1SW101810101020				
Colour	Green				
Engine type	109 HP Gasoline				
Gearbox	Automatic				
Boot Handle	Doors are unlocked immediately when message is delivered.				
Next wakeup time	2006-02-24 09:33:00				Update wakeup time
Registration date	2005-06-20 01:00:00				
Registration country	Sweden				
GSM module software	430l09gm.2C2 1209648				
TEM Software version	001				
IMEI	350953270018820				

Vehicle & customer information



Map interface with integrated route guidance and POIs

Service Request		VCCRD	Last update: 2006-02-24 09:26:42		Refresh	View All
Action	Regnr	Service	Operator	Time	Last event	
View	WIRELESSCAR	On Call	demo	2006-02-24 09:17:16	Volvo On Call in standby mode 2006-02-24 09:17:44	

Operator alarm queue with CTI connection

VOLVO

Volvo Truck Corporation

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Dynafleet Online

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TRANSPORTS DUBRULLE

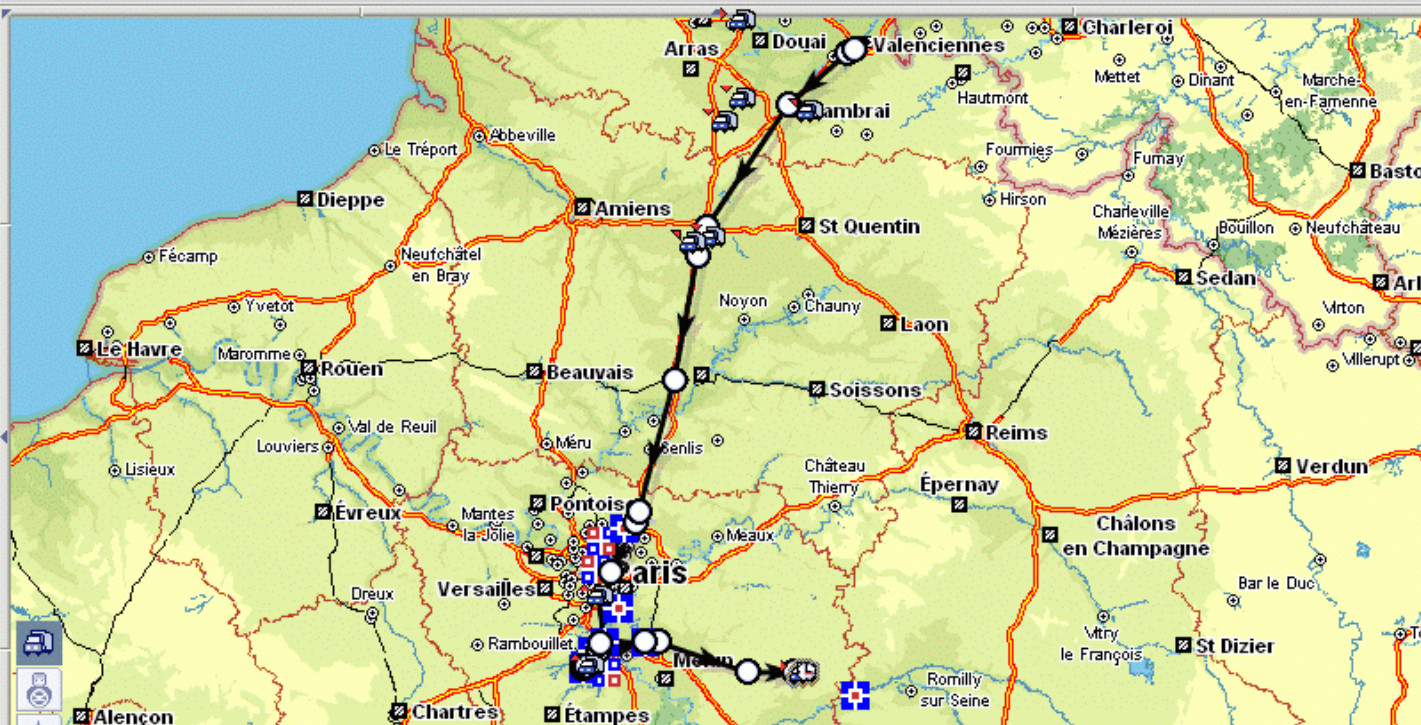
Info Reports Service Plan Messaging Maps Driver Activity

My Vehicles

All My Vehicles

- 1192 VV 62
- 1203 VV 62
- 1299 VB 62
- 1348 VM 62
- 1719 VE 62
- 2030 VJ 62
- 2301 WF 62
- 2306 WF 62
- 2311 VF 62
- 257 WK 62
- 2611 VL 62
- 262 WK 62
- 2725 VM 62
- 2727 VM 62
- 2800 VP 62
- 2801 WP 62
- 346 VA 62
- 349 VA 62
- 3559 VZ 62
- 39 VF 62
- 3990 VR 62
- 42 VF 62
- 45 VF 62
- 4506 VN 62
- 4803 VA 62
- 4809 VA 62
- 4810 VA 62
- 4813 VA 62
- 5944 VZ 62
- 5946 VZ 62
- 5988 VV 62
- 6097 VV 62
- 6956 WE 62
- 6959 WE 62

Select view...



Vehicle properties - 882 VL 62

Date and time	Trigger	Speed	Mileage	Fuel
31/08/05 18:11	Distance	61 km/h	315380 km	30774 l

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- 6959 WE 62

New: 9910 Total: 9921

Inbox

Outbox

Sent items

Assistance

Deleted items

From

Message

Date

2311 WF 62	Com n 16237604 23H50 1H00 .REM n 4002 Décroché...	26/09/05 00:23
39 VF 62	Bjr remorque 9062 quai 45 a vendin entaille ds bac...	24/09/05 01:47
9227 WK 62	je fais quoi.....nanou	23/09/05 17:07
9191 WK 62	arbo zin 1 C fredo	23/09/05 17:04
9227 WK 62	Vide a lomme.nat	23/09/05 16:59
1348 WM 62	quesque tu veux dire par essai reussi je ne com...	23/09/05 16:53
895 VL 62	J AI CHARGE COMPLET JM	23/09/05 16:48
9191 WK 62	deposé a ce jour 3 pal europes pour baarsma ron...	23/09/05 16:37
891 VL 62	essai jamais	23/09/05 16:23
9227 WK 62	Toujours en attente a lomme.nat	23/09/05 16:08
2800 VP 62	A QU'ELLE HEURE LE RDV A CAVAILLOH LUNDI? Me...	23/09/05 16:08
3559 VZ 62	ok chger odc 74607 20eur échger chger 27plas se...	23/09/05 16:02
2800 VP 62	A QU'ELLE HEURE LE RDV A CAVAILLOH LUNDI? Me...	23/09/05 15:53
5946 VZ 62	bjr ide a sallaumines...get	23/09/05 15:43
39 VF 62	bjr je suis a dunkerque (semi 4002) guy	23/09/05 15:15
7660 WA 62	J'ai chargé STRALOG	23/09/05 15:08
9191 WK 62	dire a moumoute que je suis en attente aux pinar...	23/09/05 15:04
2306 WF 62	alain vide a dainville	23/09/05 15:02
1299 VB 62	Je suis vide arrivee 12H20 rentrer 14H30 vide 16H0...	23/09/05 14:57
5944 VZ 62	Suis chargé à Pont s Seine ,Nico.	23/09/05 14:40
8663 WL 62	chgt terminer au bourget guy	23/09/05 14:38
6969 WE 62	je suis vide 12H20 14H00 15H45 dan	23/09/05 14:33
895 VL 62	JE SUIS VIDE A LOMME JM	23/09/05 14:32
5946 VZ 62	4 camions devant moi a Salaumines...get	23/09/05 14:31
8661 WL 62	je prend quoi?	23/09/05 14:22
2801 WP 62	chargé bruno!	23/09/05 14:20
8067 VZ 62	bjr,est ce que MOUMOUTE peut me confirmer la d...	23/09/05 14:13
6962 WE 62	vide à st germain ha 11:55 rdv14:00 HD15:05	23/09/05 13:59
346 VA 62	Pourriez vous m'envoyer le fax au 03 21 55 24 35 m...	23/09/05 13:56
7660 WA 62	Je suis chez STRALOG	23/09/05 13:39
8070 VZ 62	je suis charge jack	23/09/05 13:32
2611 WL 62	bjr charger a estissac gaetan	23/09/05 13:31
6956 WE 62	bjr ariver 12H30 rentre 14H sortie 14H 35 jmh	23/09/05 13:29

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[Info](#)
[Reports](#)
[Service Plan](#)
[Messaging](#)
[Maps](#)
[Driver Activity](#)

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- 5988 VV 62
- 6097 VV 62
- 6956 WE 62
- 6959 WE 62

Add vehicle or group

1192 VV 62
1203 VV 62

Date interval



05/09/05



14/10/05



Or select last



1 week(s)



1 month(s)

Type of report

Overview report



Report view settings



Table



Graph



Include driver details

Generate report



Vehicle overview report

Date interval: 05/09/05 00:00 - 14/10/05 23:59

Selection: 1192 VV 62, 1203 VV 62

Missing: 1192 VV 62 23/09/05 09:00 - 14/10/05 23:59,

Name	Total time (h)	Total distance (km)	Total volume (l)	Fuel consumption (l/100km)	Economy	Coasting	Cruise control	Over speed	PTO	Idle	Top gear	Engine load	Overrev
1192 VV 62	129:47	8,198.97	2,650.32	32.33	73.9%	7.8%	29.6%	39.7%	0.0%	10.1%	54.4%	6.3%	0.3%
Gérald RAVASSARD	115:45	7,355.47	2,347.74	31.92	74.5%	8.0%	29.2%	38.9%	0.0%	9.6%	54.3%	6.0%	0.3%
Unknown	14:02	843.50	302.58	35.87	69.4%	5.8%	33.0%	46.7%	0.0%	13.7%	55.5%	8.7%	0.1%
1203 VV 62	127:28	7,313.22	2,486.29	34.00	68.3%	8.7%	44.5%	40.4%	0.0%	17.2%	53.6%	8.3%	0.0%
Philippe HOFFMANN	127:27	7,313.19	2,486.18	34.00	68.3%	8.7%	44.5%	40.4%	0.0%	17.2%	53.6%	8.3%	0.0%
Unknown	0:02	0.03	0.11	366.67	0.0%	14.7%	0.0%	0.0%	0.0%	80.7%	0.0%	0.0%	0.0%
Total	257:15	15,512.19	5,136.61	33.11	71.1%	8.3%	37.0%	40.0%	0.0%	13.6%	54.0%	7.3%	0.1%

Volvo Construction Equipment



MAPPING & TRACKING

Custom Types Search

ALL

- My own group
 - L150 E
 - View on map
 - Summary
 - Request update

Map Geofence Location report

Favourites: Select Update

zoom Select machines in mapview

Machine information

View on map Machine summary

Name: L150 E
Machine type: L150E
Latest update: 050507 18:03
Total machine hours: 1953 h
Estimated annual machine hours: 3874 h
Product identification number: L150EV8010

Fuel status: 56 l
Speed: 0 km/h
Location: 57N26, 15E04

Machine note:
 Boom Suspension System Fitted
 CDC Comfort drive control Fitted
 Used in Gravel Pit - Double shift
 Loading Crusher
 CSA Gold

edit note

New alarms : 4

New error codes : 3

VOLVO

Volvo Construction Equipment - CareTrack

help contact

home

mapping & tracking

operation reports

service management

administration

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OPERATION REPORTS

Custom Types Search

ALL

- + My own group
- + Special vehicles
- + Only sweden

Daily hours

Machine utilization







Work shifts

050501

-

050505

Update

Favourites: Select

Yesterday

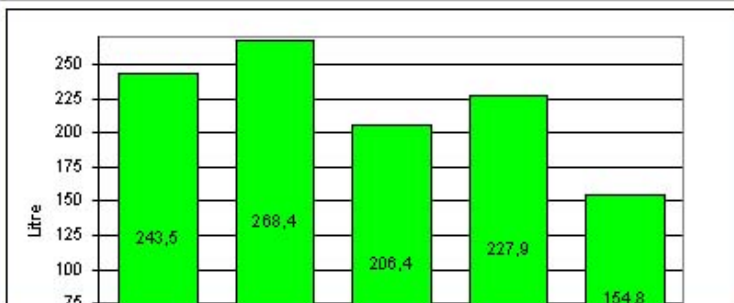
Last Week

Last Month

View graph: 

View shifts: 

Machine	Date From - To	Litre/h	Total	Work	Idle	Machine hours
L150 E	050501-050505	16l/h	1101l	83,3%	16,7%	71,0h
Shift 1		15l/h	540l	85,0%	15,0%	36,0h
Shift 2		16l/h	560l	81,7%	18,3%	35,0h



Total: 6 in list	21l/h	8393l	77,0%	23,0%	414h
Shift 1	20l/h	4801l	77,8%	22,2%	233h
Shift 2	19l/h	2708l	740,0%	25,1%	147h
Shift 3	26l/h	884l	78,3%	21,7%	34h

New alarms : 4

New error codes : 3

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The Connected Car

a challenge for the Internet and wireless world

~1.000.000.000 possible users

45.000.000 new users every year