



# Statistics



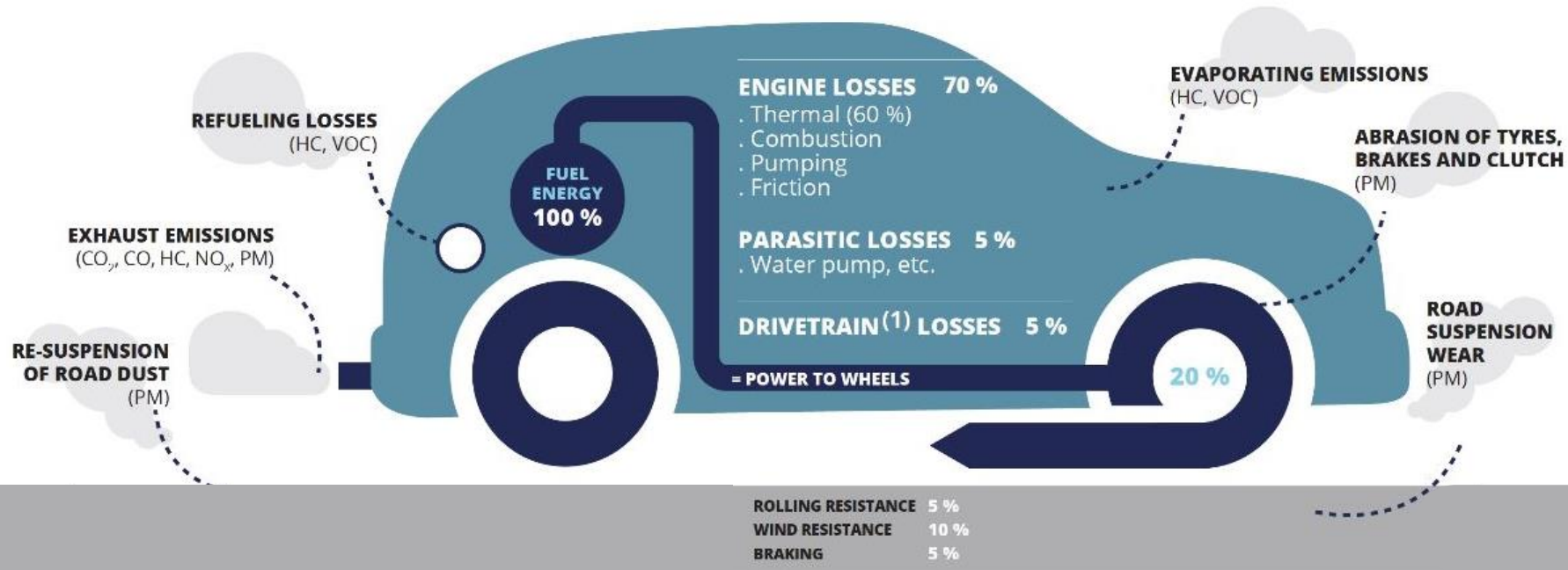
driving a gasoline car for 1  
Kilometer emits about **200** grams  
of CO<sub>2</sub>.



Based on “Public Health Reports” a  
Dog, Died when Directly inhaling **20**  
grams of carbon dioxide.



# Statistics



Car commuters direct recipients to transport air pollutants



Air pollution causes 10% premature death in Egypt

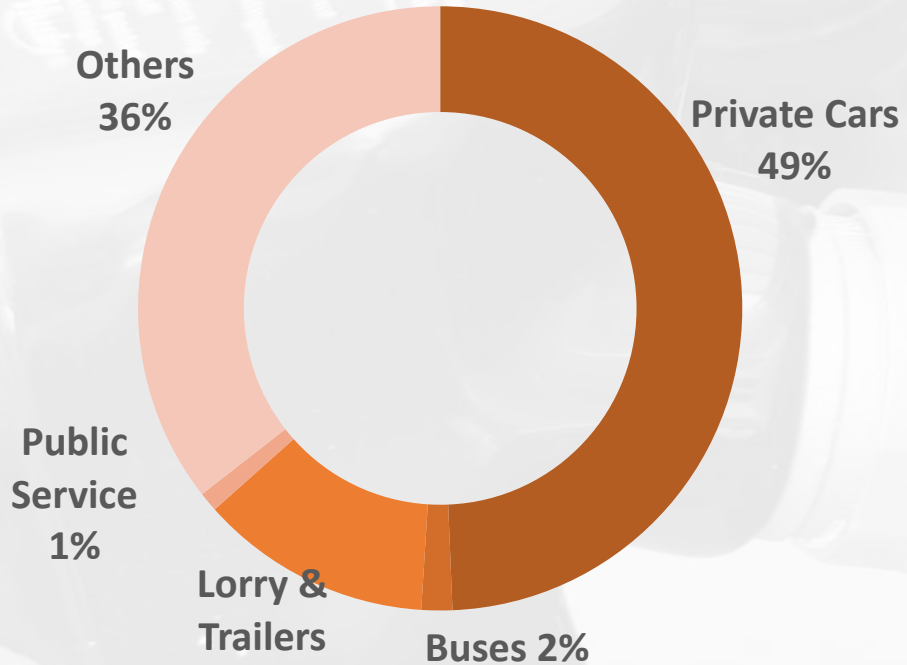


# Statistics

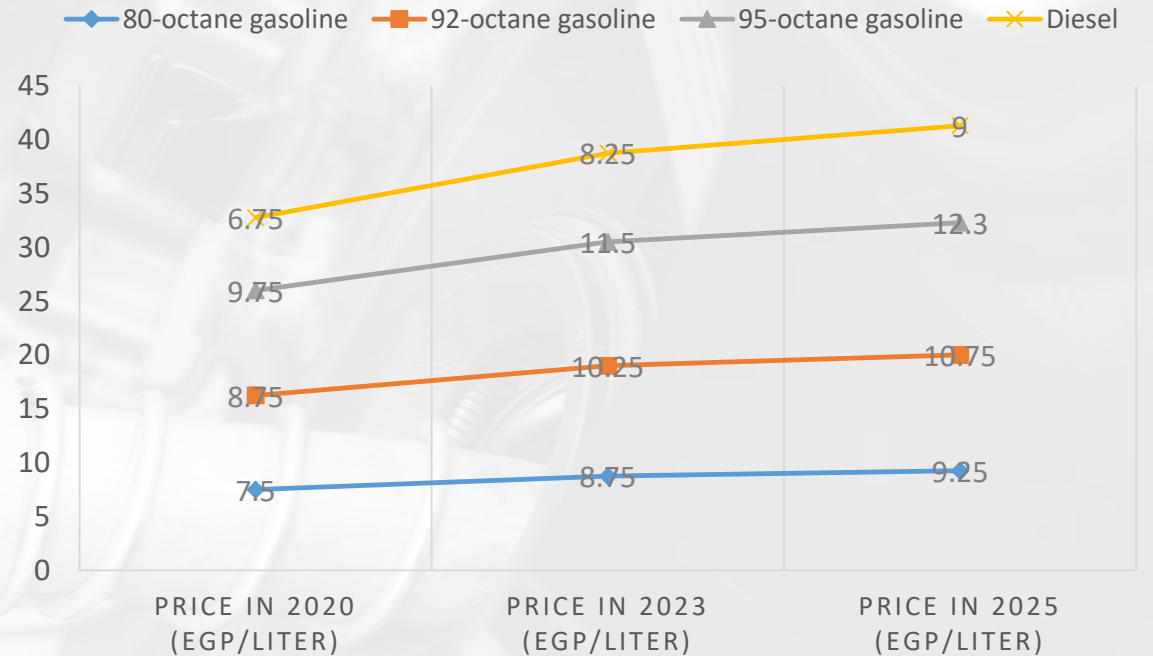
Egyptian daily Consumption of Diesel is 45 Million Liters / Day, the Gasoline is about 26 Million Liters / Day

## Vehicles in Egypt

10.9 Millions – CAGR 1.2%



## FUEL PRICE INCREASE IN EGYPT



Fuel Type	2023	2025
80-octane gasoline	16.6%	23.3%
92-octane gasoline	17.1%	22.8%
95-octane gasoline	17.9%	26.1%
Diesel	22.2%	33.3%



# Solution



Reduce CO2  
emissions by up to  
**80%**



Reduce fuel  
consumption by  
**8 to 12%**



Increase engine  
lifetime and  
Performance



From **8** to **10** years  
lifetime without  
maintenance

**SUPERTECH**<sup>®</sup>



**The device is installed in just 20  
minutes**



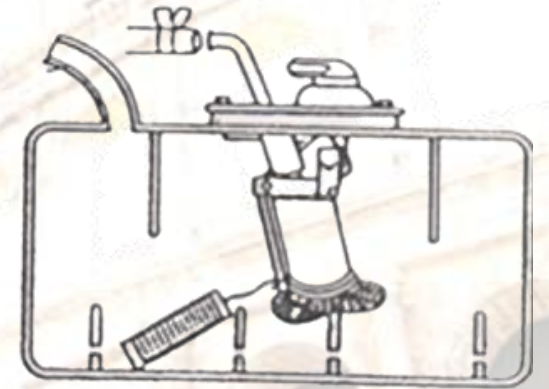
# SUPERTECH®



The Brand registered in OMPI ( Organisation Mondiale de la Propriété Intellectuelle), ITALY  
Registration Numb: N° 837 347 - SUPERTECH®



SUBMERSED DEVICE FOR REDUCING THE POLLUTING EMISSIONS AND SAVING ENERGY IN HYDROCARBON “HC” COMBUSTION VEHICLES/MACHINERY



# Reduction Process

Test Protocol in the EUROPEAN NORMATIVE (Standard) CE 93/116

## Less Gas Emission = Less Fuel Consumption

### 7. CALCULATION OF FUEL CONSUMPTIONS

7.1. The fuel consumptions are calculated from the emissions of hydrocarbons, carbon monoxide and carbon dioxide calculated in accordance with paragraph 6.

7.2. The fuel consumptions expressed in litres per 100 km are calculated using the following formulae:

(a) for petrol-engined vehicles:

$$FC = \frac{0,1154}{D} [(0,866 \cdot HC) + (0,429 \cdot CO) + (0,273 \cdot CO_2)]$$

(b) for diesel-engined vehicles:

$$FC = \frac{0,1155}{D} [(0,866 \cdot HC) + (0,429 \cdot CO) + (0,273 \cdot CO_2)]$$

where:

FC = fuel consumption in litres per 100 km;

HC = measured emission of hydrocarbon in g/km;

CO = measured emission of carbon monoxide in g/km;

CO<sub>2</sub> = measured emission of carbon dioxide in g/km;

D = density of the test fuel.

## Less Gas Emission = Less Fuel Consumption

<b>What are Gas emissions composed of?</b>	CO, HC ppm, NO <sub>x</sub> , CO <sub>2</sub>
<b>What is HC</b>	HC = Fuel which goes into the combustion chamber and comes out exactly as it went in (therefore unburnt)
<b>What does opacimeter or gas analyzer measure?</b>	HC = UNCOMBUSTED HYDROCARBONS



# Reduction Prove



HC passed from 251.000 to 30.000 = reduction of **88%**

CO passed from 7.320 to 1.120 = reduction of **84%**



Vehicle Test Certificate      شهادة فحص مركبة

Page 1 of 3

Site Location	: 754-TASJEEL BARSHAH	Vehicle Year Model	: 1997
Tester ID	: 21923 - WAKIT	Vehicle Make/Model	: NISSAN/SUNNY
Test Date And Time	: 22 MAY 2014 11:23:05	Vehicle Type	: LIGHT VEHICLE
Test Type	: RENEWAL-LMV	Vehicle Color	: WHITE
Test Count	: NEW TEST	Vehicle Category	: SALOON
Token Number	: 238	Un laden Weight	:
Transaction Number	: 9189063	Laden Weight	:
Reference import Doc.	:	Number of Axles	:
Plate Location Place	: AUH	Number of Doors	: 4
Plate Number	: 71854	Number of Seats	: 5
Plate Category	: PRIVATE	Number of Cylinders	: 4
Plate Code	: 12	Fuel Type	: PETROL
Engine Number	: GA16470417	Odometers	: 457460
Chassis Number	: JN1BDAB14Z0311947	Agcc	: YES

Result	Failed	راسب	نتيجة الفحص
Defect	Result	Remarks	Test Value
AUTOMATIC TEST:			
Brake System			الترامل
Brake Test	Passed		فحص الترامبل
Exhaust Gas Test	Failed		HC 251.000
Exhaust Gas Test	Failed		CO 7.320

Export/Import Data				بيانات تصدير/استيراد المركبة
No. Of Seats	Passed	5		عدد المقاعد
No. Of Cylinders	Passed	4		عدد الاسطوانات
No. Of Doors	Passed	4		عدد الابواب
Fuel Type	Passed	PETROL		نوع الوقود
Vehicle Category	Passed	SALOON		وصف المركبة
Engine Number	Passed	GA16470417		رقم المحرك
Agcc	Passed	YES		الترخيصات المطلوبة

VISUAL TEST:				فحص البنية ونظام التروسيلات
Steering And Suspension System				زيت صندوق عجلة القيادة
Steering Box Oil, Adjust, Change	Failed	REPAIR STEERING OIL LEAK DREPPING		التروسيلات
Steering Crack Or Bend, Bushes	Passed			المحامل
Body				الابواب
Doors	Passed	REAR D/PILLAR REPAIRED		المسار
Fenders	Passed	FRT. B/S F/FRAME REPAIRED		الارضية
Floor	Passed	REAR COMPT. END REPAIRED		

\* Change(s) observed while testing.      تم تعديل بيانات المركبة بعد إجراء الفحص للنس  
 \* Any deletion or alteration effected to this document will render it invalid.      \* أي كسح أو تعديل على الشهادة يلغها

Vehicle Test Certificate      شهادة فحص مركبة

Page 1 of 2

Site Location	: 754-TASJEEL BARSHAH	Vehicle Year Model	: 1997
Tester ID	: 21923 - WAKIT	Vehicle Make/Model	: NISSAN/SUNNY
Test Date And Time	: 27 MAY 2014 15:03:03	Vehicle Type	: LIGHT VEHICLE
Test Type	: RENEWAL-LMV	Vehicle Color	: WHITE
Test Count	: FIRST RE-TEST	Vehicle Category	: SALOON
Token Number	: 432	Un laden Weight	:
Transaction Number	: 9205819	Laden Weight	:
Reference import Doc.	:	Number of Axles	:
Plate Location Place	: AUH	Number of Doors	: 4
Plate Number	: 71854	Number of Seats	: 5
Plate Category	: PRIVATE	Number of Cylinders	: 4
Plate Code	: 12	Fuel Type	: PETROL
Engine Number	:	Odometers	: 458222
Chassis Number	: JN1BDAB14Z0311947		

Result	Passed	نجاح	نتيجة الفحص
Defect	Result	Remarks	Test Value
AUTOMATIC TEST:			
Exhaust Gas Test	Passed		CO 1.120
Exhaust Gas Test	Passed		HC 30.000

Export/Import Data				بيانات تصدير/استيراد المركبة
No. Of Seats	Passed	5		عدد المقاعد
No. Of Cylinders	Passed	4		عدد الاسطوانات
No. Of Doors	Passed	4		عدد الابواب
Fuel Type	Passed	PETROL		نوع الوقود
Vehicle Category	Passed	SALOON		وصف المركبة

VISUAL TEST:				فحص البنية ونظام التروسيلات
Steering And Suspension System				زيت صندوق عجلة القيادة
Steering Box Oil, Adjust, Change	Passed	REPAIRED		التروسيلات
Suspension Crack Or Bend, Bushes	Passed	FRT. SUSPENSION BUSH CRACK		المحامل
Body				الابواب
Doors	Passed	REAR D/PILLAR REPAIRED		المسار
Fenders	Passed	FRT. B/S F/FRAME REPAIRED		الارضية
Floor	Passed	REAR COMPT. END REPAIRED		

\* Change(s) observed while testing.      تم تعديل بيانات المركبة بعد إجراء الفحص للنس  
 \* Any deletion or alteration effected to this document will render it invalid.      \* أي كسح أو تعديل على الشهادة يلغها

# Reduction Prove



جامعة الأزهر  
AL-AZHAR UNIVERSITY

Fuel reduction %	HC Reduction %
5.43	30.00
2.71	20.00
2.54	26.58

Unit of Mechanical Works and consultation  
Faculty of Engineering  
Al-Azhar University  
Since 1992



الوحدة الخاصة للأعمال والاستشارات الميكانيكية

الوحدة الخاصة للأعمال  
والإستشارات الميكانيكية  
كلية الهندسة  
جامعة الأزهر  
تأسست عام 1992 م

The instruments used during the tests were calibrated and its accuracies as

Measured parameter	Absolute error	Technique
Inlet air flow rate	0.357 m <sup>3</sup> /h	Orifice plate with inclined manometer
Diesel fuel flow rate	8.27 x10 <sup>-3</sup> kg/h	Constant volume versus time
Engine speed	0.25 rev/s	Magnetic pickup
Engine torque	0.6 Nm	Load Balance
NO emission	2 ppm	IR
CO emission	0.002%	IR
CO <sub>2</sub>	0.02%	IR
O <sub>2</sub> concentration	0.025%	Paramagnetic
HC emission	3 ppm	FID

indicated in the following table :

The tests were carried out on low, medium, and high engine loads and constant engine speed of 1500 rpm.

Diesel without Magnetic Filter								
Speed rps	Load (N)	Fuel Time Sec.		CO <sub>2</sub> %	CO %	NO ppm	O <sub>2</sub> %	HC ppm
		per 50 CC						
25	20	295.5		3.8	0.03	210	16.1	78
25	50	212.22		5	0.04	470	14.2	84
25	100	136.46		8	0.03	1360	10	100

Diesel Engine Test With Magnetic Filter Super Tech								
Speed rps	Load (N)	Fuel Time Sec.		CO <sub>2</sub> %	CO %	NO ppm	O <sub>2</sub> %	HC ppm
		per 50 CC						
25	20	311.55		3.45	0.03	250	16.2	60
25	50	217.97		4.7	0.025	485	14.2	70
25	100	139.92		7.65	0.03	1380	10.2	79

Abdelaal

24820829 / ت / القاهرة - العباسية - المركبات - البيضاء - أمام دار المركبات - تقاطع السكة البيضاء



Unit of Mechanical Works and consultation  
Faculty of Engineering  
Al-Azhar University  
Since 1992



الوحدة الخاصة للأعمال والاستشارات الميكانيكية

الوحدة الخاصة للأعمال  
والإستشارات الميكانيكية  
كلية الهندسة  
جامعة الأزهر  
تأسست عام 1992 م

As indicated from the above results the effect of using super tech has been appears mainly in two parameters which are the fuel consumption and the emitted total hydrocarbons. The percentage reduction was calculated relative to the original values, and it gives the following values with the low, medium, and high engine loads:

Fuel reduction %	HC Reduction %
5.43	30.00
2.71	20.00
2.54	26.58

The variation on the other exhaust product components are considered negligible or still almost constant.

### Conclusion:

The use of super tech results in considerable fuel and hydrocarbons reduction, this reduction is maximum at low load while these reductions are less in medium and high loads.

Abdelaal





# More References



[Centronor](#)



[DAMASCUS UNIVERSITY](#)



[DIIT](#)



[Latvia University](#)



[SCANIA](#)



[HELWAN UNIVERSITY](#)



[UNAM](#)



[Golden Fame Holding Limited](#)

[Find More Here](#)

# Certificates



International  
Organization for  
Standardization



No 42/2004  
Date de publication: 13 janvier 2005  
Publication Date: January 13, 2005  
Fecha de publicación: 13 de enero de 2005  
Nos 837319- 837850



Organisation Mondiale de la Propriété Intellectuelle  
World Intellectual Property Organization  
Organización Mundial de la Propiedad Intelectual

## SUPER TECH

- (571) La marque est constituée par l'inscription "SUPER TECH", en caractères moulés majuscules. / *The trademark consists of the inscription "SUPER TECH", in uppercase block letters.* / La marca consiste en el elemento denominativo "SUPER TECH" escrito en caracteres de imprenta mayúsculos.
- (511) NCL(8)  
7 Economiseurs de carburant.  
11 Economiseurs de combustibles.  
7 *Motor fuel economizers.*  
11 *Fuel economizers.*  
7 Ahorradores de carburante.  
11 Ahorradores de combustible.
- (822) IT, 12.02.2001, 836460.
- (831) BX, CH, CN, CZ, DE, EG, ES, FR, HU, PL, PT, RO, RU.
- (832) AU, TR, US.
- (527) US.
- (851) BX, CZ, DE, ES, FR, HU, PL, PT. - Liste limitée à la classe 11. / *List limited to class 11.* - Lista limitada a la clase 11.
- (270) français / *French* / francés
- (580) 23.12.2004

Registration Numb: N° 837 347 - SUPERTECH®

*Certificate of Registration*

This is to Certify that  
Quality Management System of

**EAST-WEST SAS DI MARILISE LINERA & C**  
VIA ROCCA VOLI 10, 90049 TERRASINI (PA), ITALY

has been assessed and found to conform to the requirements of  
**ISO 9001:2015**  
for the following scope :

PRODUZIONE E DISTRIBUZIONE DI OTTIMIZZATORI DI COMBUSTIONE PER VEICOLI A TRAZIONE IDROCARBURI.  
PRODUCTION AND DISTRIBUTION OF COMBUSTION OPTIMIZERS FOR HYDROCARBON-DRIVEN VEHICLES.

IAF CODE : 29,18

Certificate No	: 1023QAE01	Issuance Date	: 17/02/2023
Initial Registration Date	: 17/02/2023	Date of Expiry	: 16/02/2026
1st Surv. Due	: 17/01/2024	2nd Surv. Due	: 17/01/2025

Director

Absolute Quality Certification Pvt. Ltd.  
Accredited by Deutsche Akkreditierungsstelle GmbH, Germany (Registration No. D-ZM-20817-01-00)  
Spittelmarkt 10, 10117 Berlin, Germany.

MEMBER OF MULTILATERAL  
RECOGNITION ARRANGEMENT

Deutsche  
Akkreditierungsstelle  
D-ZM-20817-01-00

\*Validity of the Certificate is subject to successful completion of surveillance audits on or before of due date. (In case surveillance audit is not allowed to be conducted, this certificate shall be suspended/withdrawn).  
Certificate Verification: Please Re-check the validity of certificate at <http://www.absolutequalitycertification.com/activeclients.aspx> or write to AQC, Ashok Bhawan, Building No. 93, Nehru Place, New Delhi - 110 019, India. e-mail : [info@absolutequalitycertification.com](mailto:info@absolutequalitycertification.com).  
Certificate is the property of Absolute Quality Certification Pvt. Ltd 93, Ashok Bhawan, Building No. 93, Nehru Place, New Delhi and shall be returned immediately when demanded.

ISO: 9001:2015



# Models



Model	Length	Fuel Tank Capacity	Diameter	Weight
Mod. A	80mm	Up to 40 litres	Ø 30mm	90g
Mod. B	120mm	Up to 70 litres	Ø 30mm	120g
Mod. C	160mm	Up to 150 litres	Ø 30mm	164g
Mod. D	240mm	Up to 350 litres	Ø 30mm	210g
Mod. E	320mm	Up to 800 litres	Ø 30mm	312g



Thank You



[innovativasmartsolutions.com](http://innovativasmartsolutions.com)



[supertech.it](http://supertech.it)