

Oct 2011



What is the LEZ Scheme?

- The LEZ scheme is an emissions based charging scheme that applies to certain Diesel vehicles.
- 2. The LEZ commenced on <u>4 February 2008</u> applying to heavy goods vehicles with a gross vehicle weight over 12 tonnes [12000kg].
- 3. On 7 July 2008 it was expanded to cover goods vehicle over 3.5 tonnes [3500kg] and buses and coaches over 5 tonnes [5000kg] with more than eight seats, plus the driver's became affected.
- From 3 January 2012 the LEZ will be extended to include large vans, minibuses and other heavy vehicles such as motor caravans and motorised horse boxes.
- At the same time the emission standard for vehicles currently affected by the LEZ will increase to Euro 4



What is the LEZ scheme - Area Covered

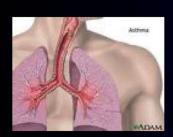


The LEZ Scheme operates in the GLA Boundary 24 hours a day, 7 days a week **including** public holidays.



Why have a LEZ?

- The Low Emission Zone (LEZ) was introduced to encourage the most polluting diesel vehicles driving in our Capital to become cleaner.
- To drive within the LEZ without paying a daily charge, a vehicle must meet certain emission standards that limit the amount of particulate matter coming from its exhaust.
- 'Particulate matter' is a type of pollution that can contribute to asthma, heart and lung disease, other respiratory illnesses and even early death.
- The <u>Mayor's Air Quality Strategy</u> published in December 2010 has more information about the link between particulate matter and health.
- By reducing traffic pollution, the aim is to improve the health and quality of life of everyone visiting, working in or living in London.













What are the objectives of the LEZ?

The objectives of the LEZ is to improve air quality in London. This is because London has the worst air pollution in the United Kingdom, it is amongst the worst in Europe and is adversely affecting the health and quality of life of many Londoners.

The Mayor of London has a legal obligation to take steps towards meeting national and European Union air quality objectives which are designed to protect human health. The LEZ supports that obligation.









What are the objectives of the LEZ?

The LEZ works by deterring the most polluting vehicles from driving in the zone by encouraging vehicle owners to consider the emission standard of the vehicle they may use to enter London and to consider how they can comply with the requirements of the scheme to avoid a large penalty charge.







Impacts of the LEZ Scheme

To move London closer to achieving the current and future national air quality objectives.

To improve the health and quality of life for people who live and work in London through improving air quality.









The LEZ Scheme Phase 1-4

Phase 1 (4th February 2008) - Heavier Lorries over 12 tonnes



Phase 2

(7th July 2008) - Lighter Lorries between 3.5 and 12 tonnes, buses and coaches with more than 8 seats plus the drivers seat over 5 tonnes

Phase 3

(3rd January 2012) - Large vans between 1.205 tonnes unladen and 3.5 tonnes GVW and motor caravans, hearses and ambulances between 2.5 tonnes and 3.5 tonnes GVW

Phase 4

(3rd January 2012) - Lorries over 3.5 tonnes and buses and coaches over 5 tonnes the required emissions standards are raised to Euro IV



How it works

- The Low Emission Zone (LEZ) operates 24 hours a day, every day of the year, including weekends and public and Bank Holidays.
- Charging days run from midnight to midnight. So if you were to enter the LEZ in a vehicle that doesn't meet the required emissions standards at 11:30pm and exit at 1.00am the next day, you'd need to pay for two days.
- Vehicles parked in the zone but not driving are not subject to the LEZ requirements for that day.



How it works (signage)

Major approach to M25

Entry point

Camera enforcement







Turnaround points







How it works

We enforce the LEZ Scheme using Automatic Number Plate Recognition (ANPR) cameras which read the customers VRM as they drive within the LEZ.







The image is then checked against a database of registered vehicles which meet the LEZ emission standards, are exempt or are registered for a 100% discount.

If the vehicle does not fall into one of the above categories the customer must pay the daily charge.



The LEZ Charges – What to Pay?

Vehicle	Weight	Daily Charge
Lorries, Goods vehicles, Motor Caravans, Motorised horseboxes, Refuse collection vehicles, Breakdown and Recovery vehicles, Snow ploughs, Gritters, Fire engines, Road sweepers, Concrete mixers, Tippers, Removals Iorries Other specialist vehicles	More than 3.5 tonnes gross vehicles weight	£200
Buses, Coaches (10 or more seats inc drivers)	More than 5 tonnes gross vehicle weight	

The customer can pay a one-off daily charge up to 64 days in advance of travel, on the day or by the end of the next working day.



The LEZ Charges - What to Pay?

Vehicle	Weight	Daily Charge
Large Vans Motorised horseboxes 4X4 light utility vehicles Pickup, Camper vans.	1.205 tonnes unladen 3.5 tonnes gross vehicles weight	
Motor caravans, Ambulances, Large Hearses	2.5 – 3.5 tonnes Gross vehicle weight	£100
Minibuses (10 or more seats inc drivers)	5 tonnes or less gross vehicle weight	

The customer can pay a one-off daily charge up to 64 days in advance of travel, on the day or by the end of the next working day.



Vehicles NOT Affected by the LEZ Scheme

Non diesel fuelled vehicles such as Petrol and electric Vehicles

From 3rd January 2012, extended-cab dual purpose pick-ups, some light utility vehicles, motor caravans, ambulances and large hearses (over 2.5 tonnes) will be affected by the LEZ.

Vehicles that are not subject to the Scheme:

Cars, motorcycles and small vans (under 1.205 tonnes unladen weight) are **not** included in the LEZ.



Not Subject Not Subject



Not Subject

How it works Warning Letters



Warning letters are issued to the registered keeper of a vehicle on the first occasion that the vehicle is observed in the LEZ which does not meet the LEZ emissions standards, is not exempt, entitled to a 100% discount or for which a daily charge has not been paid.

If the same vehicle is driven within the LEZ within 28 days of issue of the warning letter, a Penalty Charge will not be incurred.

If after the 28 day period the vehicle still does not meet the required emissions standard/complies the vehicle will incur a Penalty Charge and be issued a Penalty Charge Notice.





How it works - Enforcement process Penalty Charge Notice (PCN)

London Low Emission Zon	e Transport for London
Penalty Charge Notice The Road User Chargin Regulations 2001 as amended, The Road User Charging (Enforce as amended and The Greater London Low Emission Zone Char	ement & Adjudication) (London) Regulations 2001
To:	Issue date: Penalty Charge Notice number: Automated payment reference:
This Penalty Charge Notice has been sent to you as the registered keeper/person liable of the following vehicle: Registration Mark: Make: Model: For the following: the use of a vehicle on a road in the charging area to which a charging scheme applies without payment of the appropriate charge, at the time and location stated below: Location: Date: If you do not respond before the end of the period of 28 days beginning with the date of service of this notice a Charge Certificate may be issued which would increase the penalty charge to Failure to then pay the increased penalty charge or Felling the County Court. You have 14 days beginning with the date of service of this notice to pay the discounted penalty charge of Fithis is not paid by payable. If you fall to pay the penalty charge or fithis notice to pay the discounted penalty charge or fithis is not paid by then the full penalty charge of is payable. If you fall to pay the penalty charge or make representations by a Charge Certificate may be issued which would increase the amount payable to	
Tick to indicate payment method: By cheque/postal order	Charge Notice number Vehicle registration mark nated payment reference Maestro issue number (# applicable) Date

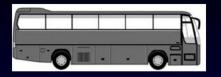
A PCN will issue to a non compliant vehicle captured on expiry of the initial warning letter grace period.



How it works – PCN Amounts and Time Line; phase 1,2 and 4 vehicles







PCN Issued – can be paid at discounted	£500
amount if paid within 14 days	
PCN to be paid at standard rate if not	£1000
paid within 14 days	
Charge Certificate Issued	£1500
Order for Recovery	£1507
Warrant of execution	£1507

How it works PCN Amounts and Time Line; phase 3 vehicles



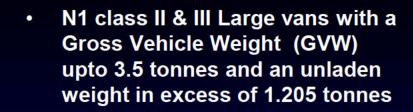




PCN Issued – can be paid at discounted amount if paid within 14 days	£250
PCN to be paid at standard rate if not paid within 14 days	£500
Charge Certificate Issued	£750
Order for Recovery	£757
Warrant of execution	£757

Vehicle definitions Goods Carrying Vehicles N











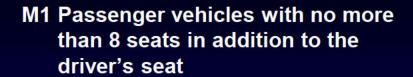




 N3 Heavier lorries exceeding 12 tonnes GVW

Vehicle definitions Passenger carrying vehicles M







M2 Passenger vehicles with more than 8 seats in addition to the driver's seat and having a Gross Vehicle Weight below 5 tonnes



M3 Passenger vehicles with more than 8 seats in addition to the driver's seat and having a Gross Vehicle Weight exceeding 5 tonnes



Euro Standards of Vehicles

Vehicle Duty Cycle	Date of First Vehicle Registration	Vehicle Emissions Classification
Heavy Duty Lorries, all buses and coaches and some minibuses.	Prior to 1992	Pre-Euro
	From 1st October 1992 – 30 th September 1995	Euro I
	From 1 st October 1995 – 30 th September 2001	Euro II
	From 1st October 2001 – 30 th September 2006	Euro III
	From 1 st October 2006 – 31 st August 2009	Euro IV
	From 1st September 2009	Euro V

Euro Standards of Vehicles

Vehicle Duty Cycle	Date of First Vehicle Registration	Vehicle Emissions Classification
Light Duty	Prior to 1st October 1995	Pre-Euro
	1st October 1995 – 31st December 1998	Euro 1
All vans, some minibuses, some lighter Lorries.	1 st January 1999 – 31 st December 2001	Euro 2
	1st January 2002 – 31st December 2006	Euro 3
	1 st January 2007 – 31 st August 2011	Euro 4
	New models from 1 st September 2011	Euro 5

Compliance options

- Re-engine their vehicle
 - **Replace** the engine in the vehicle with a new or newer compliant engine.
- Convert to gas (LPG)
 - Convert the vehicle to run on 'pure gas' with a spark ignition using an approved conversion. For GB operators, pure gas conversions must be registered with the Driver and Vehicle Licensing Agency (DVLA) and certified by the Vehicle and Operator Services Agency (VOSA). *
 - ►Bi-fuel vehicles are 'subject to' the LEZ
- Check for discounts and exemptions *
- > Replace the vehicle with a new or newer compliant vehicle
- Avoid the LEZ altogether
- ▶ Pay the relevant daily charge
- * need to register vehicle details including proofs with TfL.



Exempt vehicles











Exemption criteria



The following types of GB-registered vehicles will automatically be exempt from the LEZ and do not need to register with TfL:

- Vehicles operated by the Ministry of Defence
- UK registered historic vehicles, constructed before 1st January 1973
- Non-road-going vehicles allowed to drive on the highway for example:
 - Agricultural and forestry tractors
 - Mowing machines
 - Agricultural and farm machinery and equipment
 - Mobile crane/plant
 - Some Road and building construction machinery



Not eligible for exemption



Manufactured for general road use





Not eligible for exemption



Transporter vehicle



Introduction to the 100% Showman's Discount

There is only one 100% discount category which applies to certain Showman's vehicles.

What is a showman:

A showman is a term used to describe a member of an organised group of travelling show people (whether or not travelling together as such) who travel the country holding shows e.g. A fair ground or circus, travelling from site to site. This is a standard part of their business model and lifestyle.



Introduction to the 100% Showman's Discount

Article 5(1)

- 5.—(1) A vehicle is a non-chargeable vehicle for the purposes of use within the low emission zone and the ultra low emission zone if— (a) the vehicle falls within one of the classes of non-chargeable vehicles specified in paragraph (2); and
- (b) particulars of the vehicle are for the time being entered in the register.

Article 5(2)(c) makes more general references

(c) any showman's vehicle that is neither a trailer nor a semi-trailer and is permanently fitted with a special type of body or superstructure forming part of the equipment of the show of the person in whose name the vehicle is registered;

Articles 5(5)(b i and ii) and 5(5)(c) then extend and qualify elements of Article 5(2)(c):

- (b) "showman's vehicle" means a vehicle that is—
- (i) registered under the 1994 Act or, in a country other than the United Kingdom, in accordance with that country's rules governing the registration of such vehicles, in the name of a person following the business of a travelling showman; and
- (ii) used solely by that person for the purposes of his business and no other purpose;
- (c) "trailer" and "semi-trailer" have the meaning given by regulation 3 of the Road Vehicles (Construction and Use) Regulations 1986(a).

The 100% Showman's Vehicle Discount Criteria

This discount applies only to those vehicles TfL approves as meeting the criteria in summary these will be vehicle:

- Registered in name of a person following the business of a travelling showman AND
- used only for the purpose of the business AND
- Is not a Trailer or Semi trailer AND
- Is used during the performance AND
- has a special type of body or superstructure fitted AND
- The special body or superstructure is permanently fitted

Modifications or special constructions must be used during the performance

Continued.....



The 100% Showman's Vehicle Discount Criteria

A special type of body and superstructure can and may include the following:

- Permanently fitted with 'working plant' where the working plant is used during the performance
- 2. Used for the purpose of providing the performance
- Specially constructed or adapted vehicle carrying equipment used for the purpose of providing the performance with a full description of the vehicle by reference to the items being carried.
- 4. Used to display animals to the public where the vehicle is specially constructed or permanently modified for such activity.
- 5. Special adaptation below chassis level where it is impossible to fit emissions abatement equipment.
- 6. Tractor unit of an articulated load where the trailer is permanently fitted to the unit and where the trailer, if it were motorised, would fall into one of the categories listed above.

Showman Acceptable Evidence

Operators will need to provide:

- A photocopy of the vehicle registration documents
- Photographs of the vehicle, suggest 4 but as many as needed to support the application. 1 photo showing the VRM to check against the V5C.
- Photos should show the front, back and both sides of the vehicle.
- Have all doors open, as some equipment that is permanently fitted and part of the equipment of the show may be inside.
- Photos need to show any special modifications and permanently fitted equipment.
- Be colour and of a quality to allow TfL to make a definitive decision.



Examples of vehicles NOT eligible for the 100% discount



Why?



Examples of vehicles eligible for the 100% discount?





Why?



Examples of vehicles eligible for the 100% discount?



Why?



What is an Eligible Engine?

- ➤An eligible engine is one that was designed and built to a Euro standard before the mandatory data for that standard to apply.
- ➤ This applies to diesel vehicles exceeding 3.5 tonnes and diesel passenger vehicles exceeding 5 tonnes registered before 1 October 2001.
- ➤TfL has worked with engine manufacturers to identify those engines that comply with the phase 1 and 2 LEZ emissions standards.
- The list available on the TfL website





Eligible engines phase 1 & 2 vehicles January 2012

 No eligible engine for phase 1 & 2 vehicles will achieve the mandatory base Euro IV standard from January 2012.

An approved full filter for these vehicle type will only achieve a
maximum of Euro III standard.





Early adopter vehicle engines

- There are a small number of vehicles manufactured to the relevant emission standards prior to the date of first registration, these are known as 'early adopters'.
- Customers who believe their vehicle achieves the relevant standard are to follow the registration process.



Abatement equipment

Abatement Equipment is a filter (particulate trap) which is fitted as part of the exhaust system of a vehicle to reduce emissions of particulate matter.





Full Filter-How It works

- The filtered soot and other contaminates are oxidised when the exhaust temperature reaches 320° C under normal vehicle operation.
 - They eliminate black smoke, particulate matter and noxious emissions of hydrocarbon and carbon monoxide.
- All high efficiency Diesel Particulate Filters will require the periodic removal of inert ash that collects within the channels.
- A Full Filter will allow vehicles to achieve the LEZ requirements beyond 2012 by reducing the particulate matter to Euro IV levels.





Partial filter: How it works

- Allows heavier vehicles with a base Euro II standard to conform to the LEZ requirements <u>until 2012</u> by improving emissions standard to Euro III.
- Due to technical standards required from January 2012 for Euro IV, no partial filter can achieve the required Euro IV standard.
- Allows light commercial vehicles with a base Euro II to conform beyond 2012 by improving emissions standard to Euro III.





Reduced Pollution Certificates (RPC's)

Her Majesty's Customs and Excise (HMRC) run the RPC Scheme available to heavy goods vehicle and public service vehicle operators

Vehicle's that qualify for a RPC are entitled to a reduced rate of vehicle excise duty.

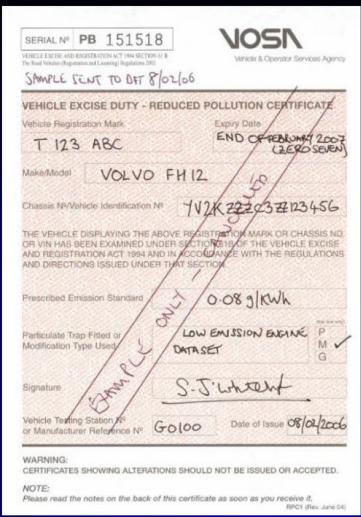
A RPC is issued when a vehicle is fitted with an approved particulate abatement device that decreases its emissions levels to the approved standard.

NB All RPC particulate trap approvals use full flow technology and can achieve the Euro 4 PM standard. RPCs with box "P" ticked should be treated as Euro IV in all cases and will be compliant after 2012.

P- Abatement equipment

M- Re engine

G- Gas (fuel conversion)





Low Emission's Certificate (LEC's)

VOSA test and certify modified vehicles on TfL's behalf to ensure vehicle meets the LEZ standard when they are not eligible to receive an RPC. Vehicles that pass the test are issued a Low Emissions Certificate (LEC).

The LEC test and certification process is the same as that applied for the RPC where VOSA certify:

- an engine modification
- an engine is on the eligible engine list and pass a required smoke test
- for approved particulate traps, that vehicles pass a required smoke test.

The LEC certificate is available to all vehicles, irrespective of their tax class.

	Vehicle Description date Agency 11 all Sport
LOW EMISSION CERTIFICATE	
Vehicle Registration Mark	Expiry Date
Make/Model	
Chassis Nº/Vehicle identific	cation N°
CHASSIS NO OR VIN HAS BE TRANSPORT FOR LONDON I REGULATIONS. Prescribed Emission	THE ABOVE REGISTRATION MARK OR EEN EXAMINED IN ACCORDANCE WITH THE LOW EMISSION CERTIFICATE
Standard	
	Tick one only P M
Particle Trap Fitted or Modification Type Used	G
	G
Modification Type Used	or Date of



VOSA/TfL Interface

- ►VOSA issue a LEC or RPC for all adapted GB vehicles that have been inspected.
- Certificates certify the emissions euro class the modified vehicle achieves.
- It includes the Vehicle Identification Number (VIN) and the VRM this helps deal with 'VRM plate transfers and potential fraud.
- ➤ Last a minimum of twelve months so have an expiry date.
- Certificate details are sent electronically by a secure interface automatically updating the VLS within 10 working days of pass or fail there is no need to contact TfL.





DVLA interface

The DVLA provide us on a quarterly basis with physical details of vehicles which may include:

- ➤ Body type
- > Fuel
- Gross vehicle weight
- Number of passenger seats
- ➤ Date of registration
- Year of Manufacture

Physical details assist TfL with classifying the vehicle.





Generic vehicle

- The data provided by the DVLA can be incomplete and limited, and omitted data is now required to evaluate a vehicles compliance.
- ➤In order to 'plug' these gaps TfL uses additional generic vehicle data for the "Make and Model" to 'backfill' the missing data.
- The generic date used is the maximum gross and unladen weights on the Make & Model.
- This weight is applied and used so we can calculate a vehicle classification such as N1 class I, II and III vehicles and if they are subject or not subject to a phase of the Scheme.





Operator Information Campaign

Stage 2: March/April - August 2011

Media and messages

Campaign Objectives

To raise awareness of 3 January 2012 date

To educate operators about which vehicles are affected

Larger vans, minibuses and other specialist vehicles now need to meet Euro 3 standards for the first time

Lorries, buses, coaches and other specialist vehicles now need to meet tighter emissions standards of Euro IV

To encourage use of the vehicle compliance checker tools

To encourage operators of non compliant vehicles to take timely action

To encourage operators to visit tfl.gov.uk/lezlondon or call for an information leaflet

To explain the benefits of the Low Emission Zone





Operator Information Campaign

Media Campaign Dates to raise awareness of 3 January 2012

Posters – w/c 28 March to 12 Sept

UK Trade press - w/c 21 March to 27 June

Radio – March & July

National Press - w/c 11 April - 25 April

Digital Ads – w/c 11 April to 29 August

European Vertical Press – w/c 28 March to Jan 2012



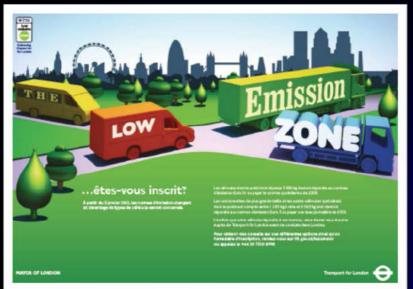


Delivering Cleaner Air for London

Advertising

Large and small format posters, trade & consumer press ads, european press ads and

radio ads

























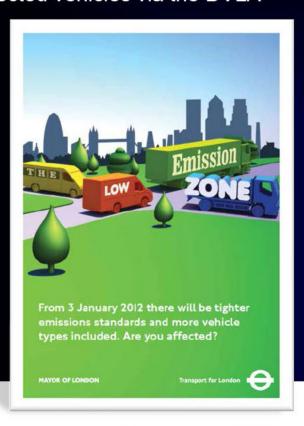






Direct media

Leaflets available from call centre & sent to affected vehicles via the DVLA



Working with partners to convey messages to their customers























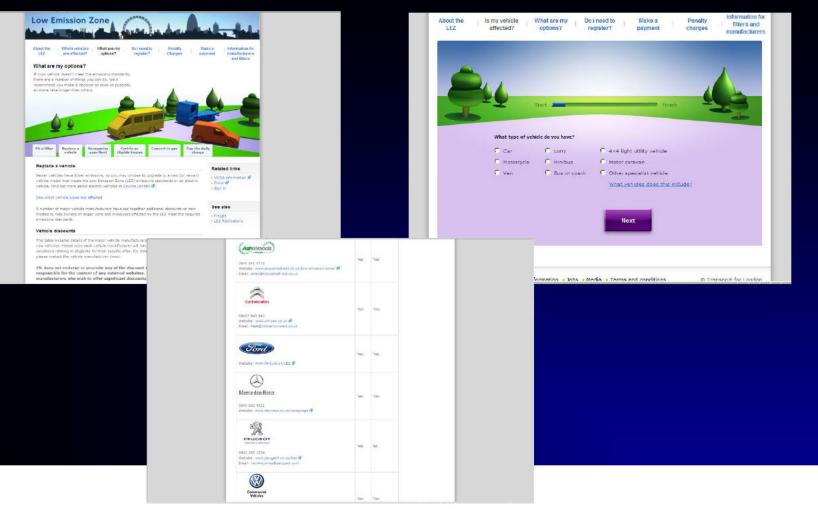




Delivering Cleaner Air for London

Website

New web page added to incorporate vehicle manufacturer offers



























for London

You are it. Korle

Digital Advertising

Animated digital ads on relevant websites



























Delivering Cleaner Air for London

Partnerships

A four page leaflet was developed for face to face interaction with our customers.



What is the Low Emission Zone?

The Care Encentry Zone SESS was broadward in 2005 to encounge the most polisting heavy dieselved lates driving in the Capital to become clearer. By reducing terflic pullsation, our are in in to improve the hardiff- and quality of the for everyone duling relating to an integrity London.

Where does the LEZ operate?

That LEE course errors of Greater London and operates 245 may a day, every day of the year, including resetancis and public holidays. His amportant to note that the LET is not the same as the central conduction protection.



Changes in 2012

From 3 January 202 larger varie, inhabition and specialist direct relitions. will be affected by the UEZ for the first time, and relicioned to meet the Euro I emissions standards to dive satisfa-the LEZ line of charge.

Lorder, Suser, coaches and have specialist neticles currently need to meet the francil standards, but on of 3 January 2013 this self for raised to flue IV similarly.

You say find all the information you need about the veloce byen, the candards and the 2017 sharges on our restore tiligon utilitation for

Is my vehicle affected?

The sacreti way to find out to to one our vehicle checker and. You can lind this of this production for

What are my options?

If your redition disease it mean the embotion standards, you con-

- * Risispondilla
- Replace a velocia briesala are published on currentered Recognise your liest
- Pay the day chape—E 20 for larger uses, mindules and apacifics relades, £200 for Lardes, founds, countries well-large specialist vehicles.

Done of these updates can belie time to organize, no we modifyes by that your outside create the standard than pay a daily charge.

Non GB registered vehicles

Before being disservin London, vehicles which need the extractions standards cell reset to be reprised with TA I frisher they went the standards. For ablice and to download anaptivation form visit (E gov abbelowing

























Glossary



Understanding the Results of a Compliance Check

Status	What Does This Mean?
Compliant	Based on the information we hold on the vehicle it is classed as meeting the emission standards
Non-Compliant	Based on the information we hold on the vehicle it is classed as not meeting the emission standards
Exempt	Based on the information we hold on the vehicle it is exempt from the LEZ Scheme
Not S ubject	Based on the information we hold on the vehicle it is not affected by the LEZ Scheme
100% Discounted	Based on the information we hold on the vehicle it is showing as 100% Discounted which means the customer application was successful



Plain English Descriptions

Not Subject to the LEZ Scheme:

Vehicle type that the LEZ Scheme does not target (e.g. cars).

Compliant:

Vehicles that are subject to the LEZ Scheme and comply (i.e. a vehicle that meets

the emissions standards/or has provided proof to TfL and the vehicle is recorded on TfL's register).



Plain English Descriptions

Non-Compliant:

Vehicles that are subject to the LEZ Scheme but do not comply (i.e. does not

meet the emissions standards of the LEZ Scheme or meets the emissions standards of the LEZ Scheme but this has not been proven to TfL –foreign vehicles).

Exempt:

Diesel vehicles over 3.5 tonnes that are UK military, foreign military, historic vehicles registered or manufactured before 1973 or non road-going vehicles.

100% Discount:

Showman's goods vehicles that have successfully been registered with TfL for a 100% Discount.



www.tfl.gov.uk

