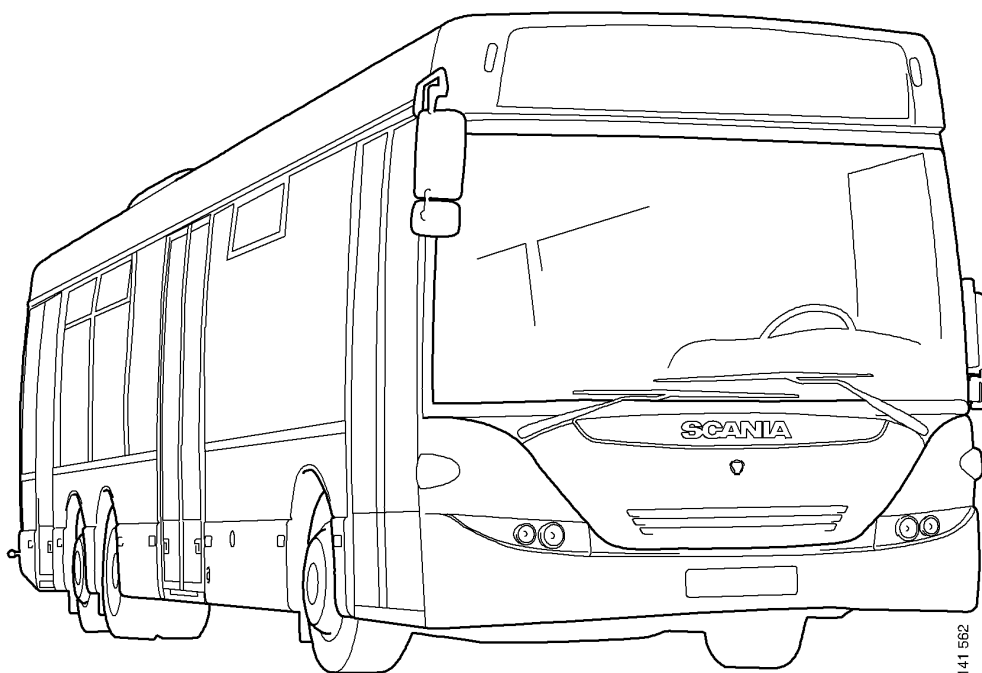


00:21-50

Issue 72 en-GB

Preface to maintenance programme

F, K and N series



141 562



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Changes since the previous issue

Other engine and fuel components, diesel and HVO operation

Renewing the filter, diesel and HVO operation

Updated information: The Scania-generated maintenance plans are based on the use of clean fuel.

Renewal of particulate filter (DPF), diesel operation and HVO operation.

Table updated.

Other engine and fuel components, operation with FAME EN 14214

Euro 6, XPI, prepared for operation with FAME EN 14214

Particulate filter renewal: Table has been updated.

Other engine and fuel components, ethanol

Euro 6, PDE, ethanol operation

Particulate filter renewal: Table has been updated.



Preface

A Scania vehicle has been optimised for good transport economy. Regular maintenance is the key to service life for a Scania vehicle. It is also necessary to maintain a high level of safety in traffic and operations and avoid unplanned stops.

This document describes the periodic maintenance programme, with renewal intervals for components and systems.

Please read the preface before planning maintenance requirements with the customer.

Note the following:

- Which factors influence the vehicle maintenance requirements.
- How to customise the maintenance programme to different types of operation.
- Possible local adaptations to the maintenance programme
- The environment in which the vehicle is driven may require extra maintenance.



Planning maintenance

The maintenance programme is the basis for planning the maintenance requirements of the vehicle. Since operating conditions may vary, it is important that the customer and the workshop agree maintenance requirements together, and customise the maintenance. Scania supplies a maintenance planning and costing service, MAC.

The maintenance programme includes a number of standard and a number of optional maintenance events which can be selected as an addition. These are described in more detail in the section Additions and adaptations.

Maintenance requirements

The most important aspect when planning vehicle maintenance is the requirements of the vehicle. Start planning maintenance by identifying the following:

1. Vehicle specification and operation type.
2. Engine oil grade.
3. Engine emission class.
4. Fuel grade and sulphur content.
5. Transmission oil grade.
6. Other components which may have an effect on the interval.
7. Fluids or components with expiration dates.
8. The vehicle operation area and the environment in which the vehicle is driven.

Renewal intervals for engines, central gears and gearboxes in the periodic inspection forms are based on the oil grades that have been filled at the factory. These oil grades are reported in document 00:16-15, Fuel, lubricants and fluids.

It is necessary to make local adaptations to the inspection forms, if the option is to fill with approved oil grades, which give shorter change intervals. It may then be necessary to add an oil change at the S and/or M maintenance events.

The vehicle must be maintained according to the individual maintenance plan at least once per year. This applies regardless of operation type or engine oil grade.

With second-hand vehicle, start the maintenance plan with an L maintenance, in order to ensure that the entire vehicle is fully maintained.

Maintenance of the vehicle is not just covered by the maintenance programme, but also by checks performed by the driver.

Driver checks are described in the Driver's Manual.



The Scania maintenance programme

The maintenance programme comprises a number of standard maintenance events. In addition, there is maintenance which can be added as an option depending on requirements.

Standard maintenance

- Pre-delivery inspection (D): Carried out by Scania workshops on the vehicle bodywork prior to delivery to the customer.
- R maintenance (running-in maintenance): Carried out by Scania workshops no more than 6 weeks or 20,000 km after delivery to the customer, depending on which comes first.

Includes the following:

- Checking fluid levels
- Checking attachments
- Checking for damage

- S maintenance: Minimum normal maintenance.

Depending on the vehicle configuration, S maintenance may contain the following, among other items:

- Engine oil change
- Transmission oil change
- Filter renewal
- Lubrication, cab and chassis

- M maintenance: More extensive maintenance.

Depending on the vehicle configuration, M maintenance may contain the following, among other items:

- Engine oil change
- Transmission oil change
- Filter renewal
- Lubrication, chassis

- L maintenance: Includes all maintenance items.

Depending on the vehicle configuration, L maintenance may contain the following, among other items:

- Engine oil change
- Transmission oil change
- Filter renewal
- Lubrication
- Brake test

Maintenance as option

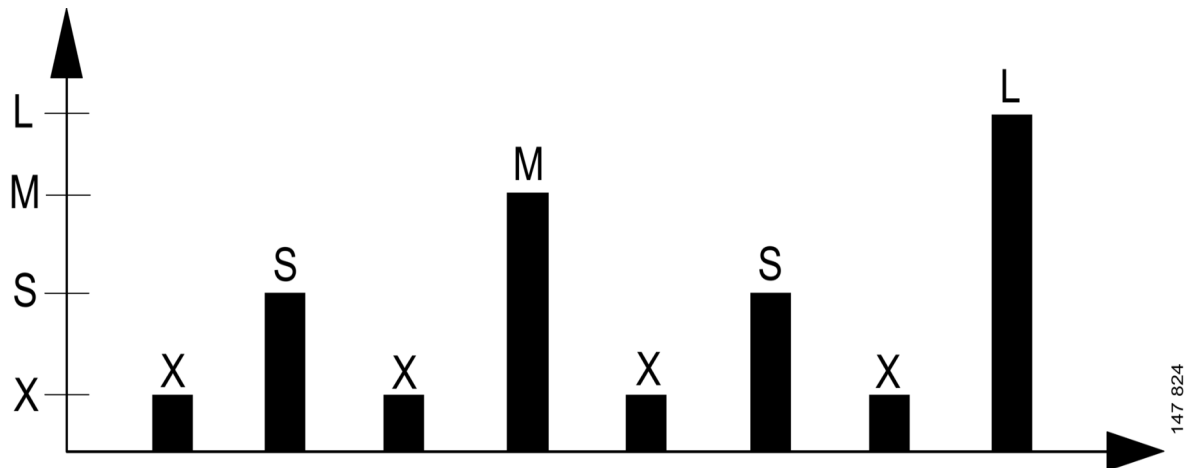
- X maintenance: Consists mainly of an extra chassis lubrication; refer to the section X maintenance.
- XO maintenance: Consists primarily of the same maintenance items as X maintenance but with the addition of an engine oil change.
- Maintenance plus: Maintenance items that are part of the Ecolution by Scania environmental concept.
- Preventive renewals: Components which are renewed at planned intervals. For more information, refer to the Preventive renewals section.



Maintenance sequence

Without X: S-M-S-L = 1 period

With X: X-S-X-M-X-S-X-L = 1 period



The illustration shows a maintenance sequence where X maintenance is included.

Maintenance instructions and forms are in Scania Multi, group 00-21, under the maintenance button in the menu.



Operation types

This section describes the different operation types designated for the maintenance programme.

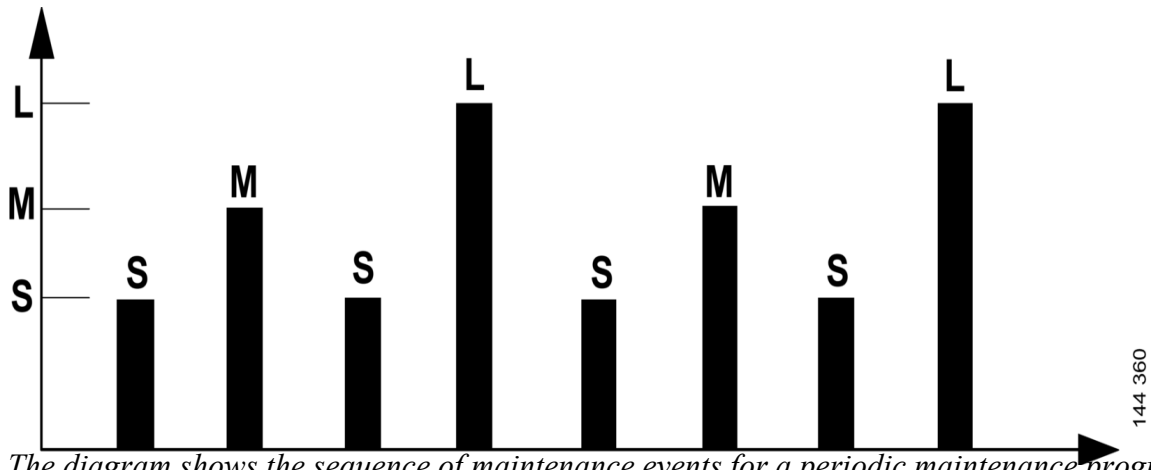
The operation types are divided into the categories very long distance services, suburban and regular services, city services and city services for DC07 Euro 6. The division is based on factors such as road conditions, fuel consumption, number of starts and stops, gross weight, average speed and the type of application the vehicle has.

Note that the bar charts for each operation type give the maximum oil change interval for the operation type, and that the examples only apply to diesel vehicles. The oil change intervals vary depending on the oil grade, emission class and fuel. Choose the operation type that most closely resembles the operating conditions.

For information on oil change intervals using other fuel, refer to the intervals for components and systems section.



Operation type 1 Long-distance services

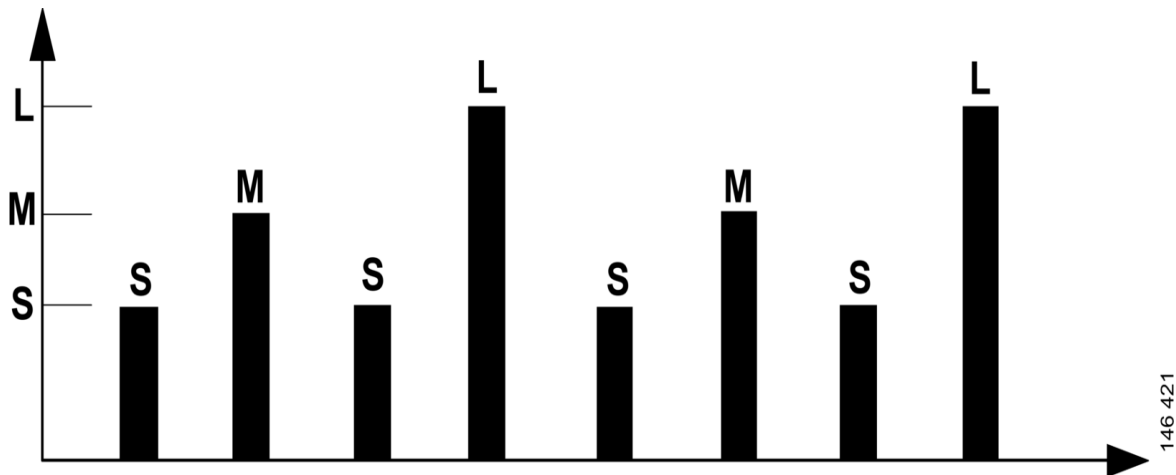


The diagram shows the sequence of maintenance events for a periodic maintenance programme.

- Fuel consumption is less than 33 litres/100 km.
- Travel is uniform, i.e. fewer than 20 stops or major decelerations per 100 km.
- Idling operation is less than 25% of the total operating time.
- Transport example: Regular services between cities, long distance.
- Application example: Tourist bus.
- Be aware of the potential need for X or XO maintenance. Refer to the descriptions in this document regarding under what conditions X or XO maintenance may be required to supplement S, M or L maintenance.



Operation type 2 Suburban and regular services

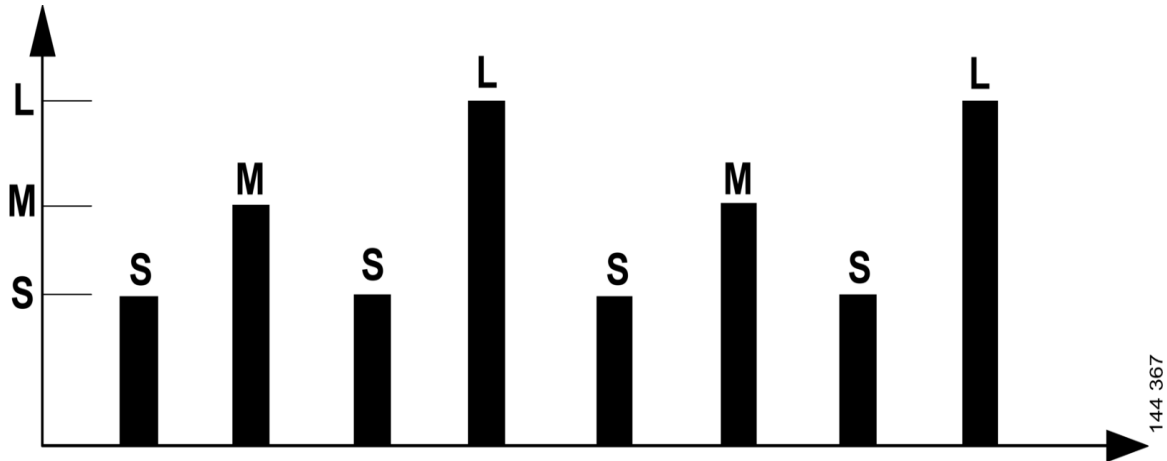


The diagram shows the sequence of maintenance events for a periodic maintenance programme.

- Fuel consumption is less than 42 litres/100 km.
- Like operation type 1, but higher load on the powertrain and chassis due to frequent starts and stops.
- Services are light, i.e. fewer than 20-50 stops or major decelerations per 100 km. Usually, the roads are narrower with few stops and speed limitations due to sharp bends, traffic or other obstacles.
- Transport example: Suburban services, regular services between cities, short and medium distance, chartered services.
- Application example: Medium-range inter-city.
- Be aware of the potential need for X or XO maintenance. Refer to the descriptions in this document regarding under what conditions X or XO maintenance may be required to supplement S, M or L maintenance.



Operation type 3 City services

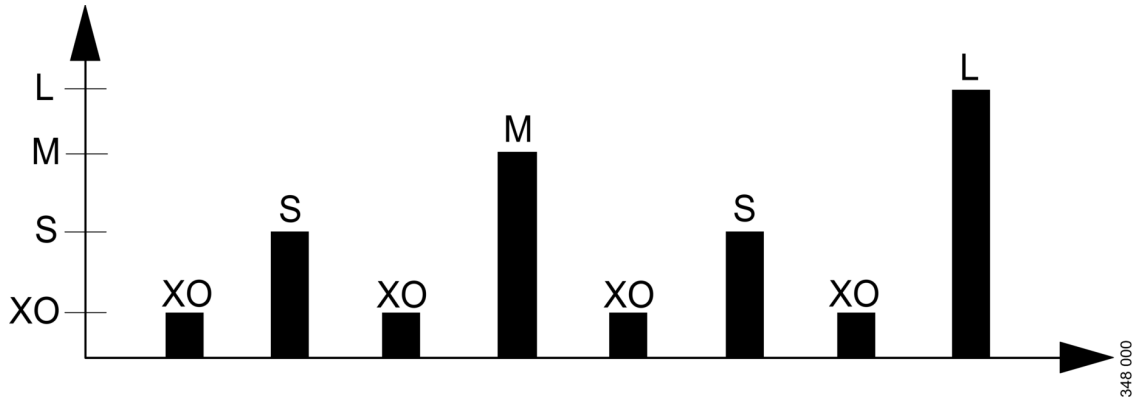


The diagram shows the sequence of maintenance events for a periodic maintenance programme.

- Services are frequent, i.e. more than 50 stops or major decelerations per 100 km. Services with frequent starts and stops are usually found in cities.
- Idling operation is more than 25% of the total operating time.
- Transport example: Regular services in cities.
- Application example: City bus.
- Be aware of the potential need for X or XO maintenance. Refer to the descriptions in this document regarding under what conditions X or XO maintenance may be required to supplement S, M or L maintenance.



Operation type 3 City services for DC07 Euro 6



See the operation type description in the previous section Operation type 3, City services.

DC07 has mandatory XO maintenance to keep maintenance costs as low as possible.



Additions and adaptations

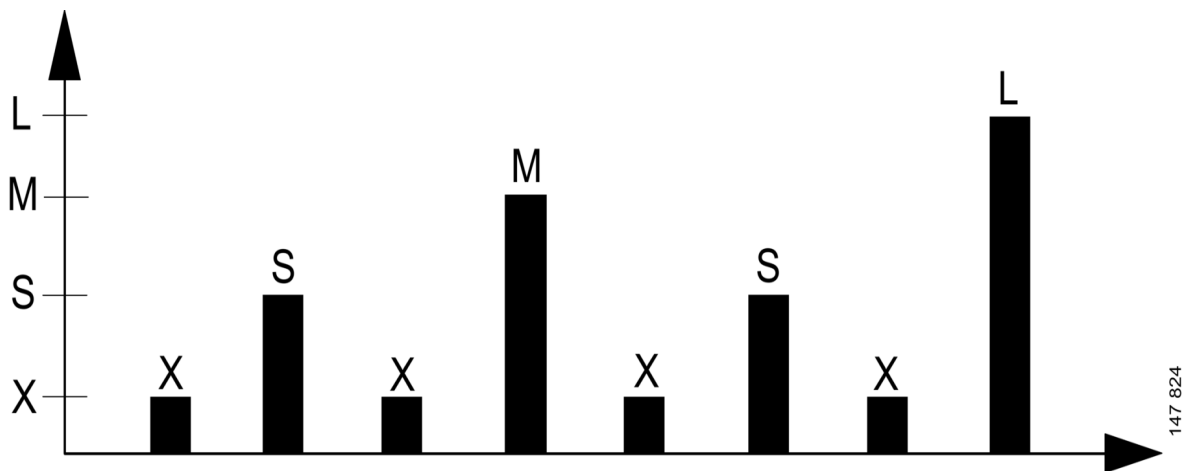
This section provides more information about maintenance in addition to the regular maintenance programme and adapted maintenance programmes for specific operations and vehicle types.

The following additions and programmes are listed:

- X maintenance
- XO maintenance
- Programme for ethanol-powered vehicles



X maintenance



The bars show examples of maintenance programme sequences that include X maintenance.

X maintenance mainly includes additional lubrication of the chassis.

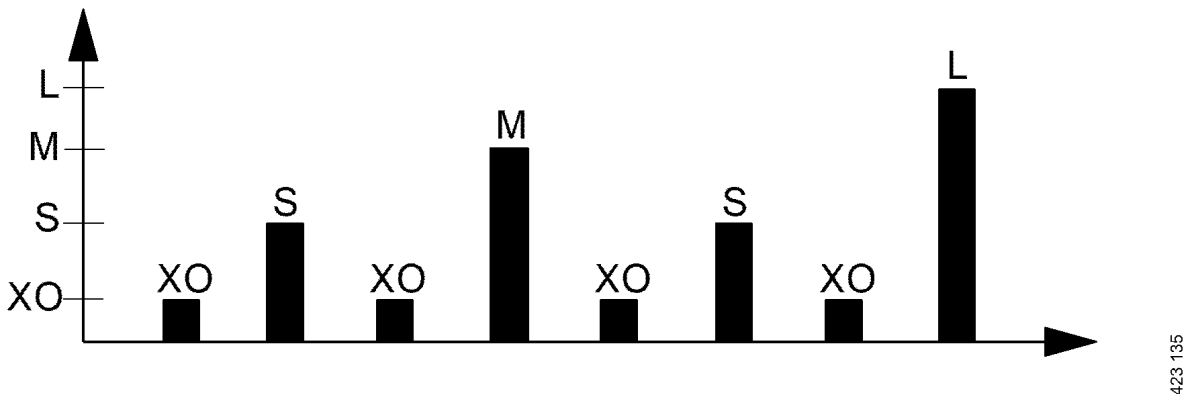
The maintenance programme for the vehicle may be supplemented with X maintenance in certain circumstances. See the illustration after XO maintenance.

Examples of factors which may affect the need for X maintenance:

- Roads that are in poor condition. They are partly unsurfaced and do not allow the driver to maintain a uniform vehicle speed.
- Dusty conditions.
- Humid environments.
- The vehicle is washed frequently.
- Fuel grade.
- Salt.
- Extra lubrication and checks of e.g. body-work and extra equipment.
- Customer preference, e.g. if intermediate maintenance is needed to shorten the time between workshop visits.



XO maintenance



The bars show examples of maintenance programme sequences that include XO maintenance.

X maintenance with oil change is called XO maintenance. In principle, XO maintenance comprises the same maintenance items as X maintenance, but with the addition of engine oil change and oil filter renewal as well as maintenance of the centrifugal oil cleaner.

Examples of factors which may affect the need for XO maintenance:

- Operations predominately comprise idling and power take-off operations rather than driving time.
- If the oil change intervals must be reduced due to operation with high-sulphur fuel.

Transport example: Buses in city traffic.

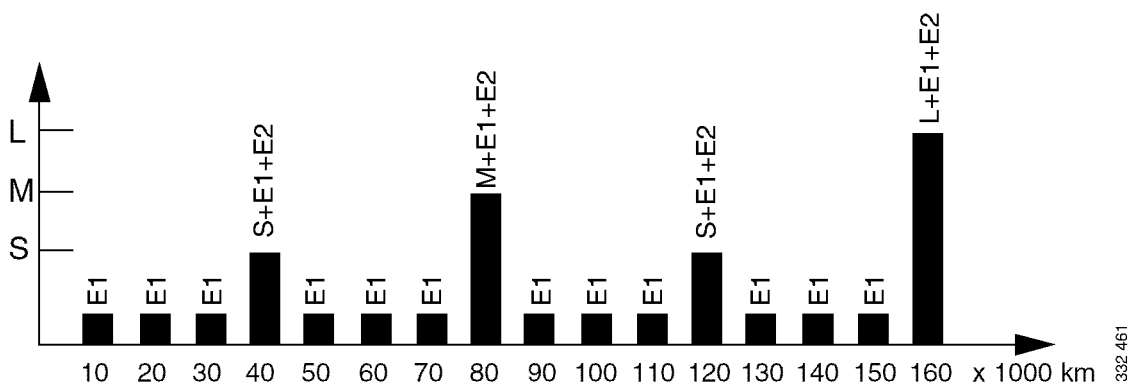


Programme for ethanol-powered vehicles

Oils, see 00:16-15 Fuels, lubricants and fluids.

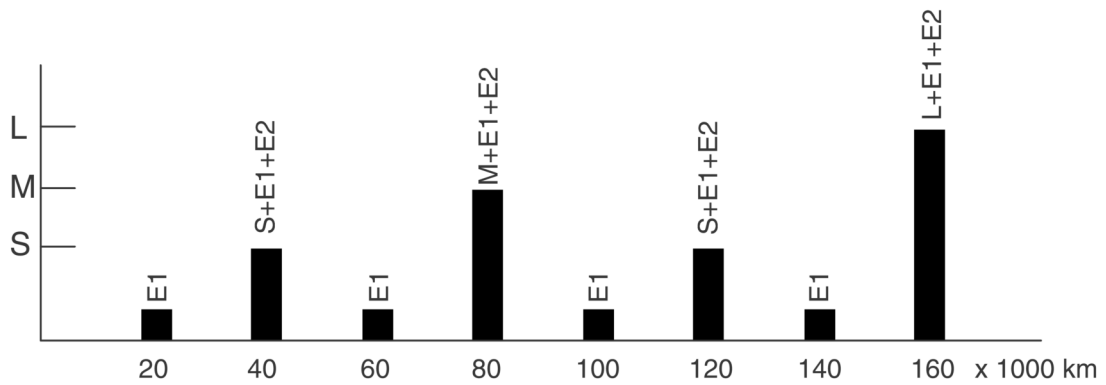
Use the maintenance forms for bus together with maintenance forms E1 and E2 for ethanol-powered vehicles.

With engine oil grade Scania Bioethanol



332 461

With engine oil grade Scania Oil BEO-2



349 035



E1 Ethanol maintenance 1

Includes the following:

- Engine oil change
- Oil filter renewal

E2 Ethanol maintenance 2

Includes the following:

- Unit injector renewal
- Checking and adjusting valve clearance and unit injectors

Fuel, lubricants and fluids

The quality of lubricants and fuel may have an effect on the change intervals. The recommended oil change interval given in the Intervals for components and systems section applies providing that lubricants and fuel meet Scania requirements.

For more information on the quality requirements for fuel, lubricants and fluids, refer to:

- Fuel, lubricants and fluids (00:16-15), Workshop Manual main group 00.



Sulphur content in fuel



IMPORTANT!

If the vehicle has a diesel particulate filter (DPF) aftertreatment management system with EGR/SCR, the sulphur content in the fuel must not exceed 10 ppm.

Exhaust gas aftertreatment	Emission class	Max. sulphur content in fuel for unaffected oil change intervals ¹	Note
EGR and SCR	Euro 6	10 ppm (0.001%)	More than 10 ppm is not permitted. A higher content causes engine damage.
EGR	Euro 5 (DC13)		
EGR	Euro 5 (DC9/DC09)	50 ppm (0.005%)	More than 50 ppm is not permitted. A higher content causes engine damage.
	EEV		
EGR	Euro 4	350 ppm (0.035%)	More than 350 ppm is not permitted. A higher content causes engine damage.
SCR	Euro 5, Euro 4	350 ppm (0.035%)	351-1,000 ppm gives the oil change interval ¹ divided by 1.5.
			1,001-2,000 ppm gives the oil change interval ¹ divided by 2.
			More than 2,000 ppm is not permitted. A higher content causes engine damage.
-	Euro 3, Euro 2	350 ppm (0.035%)	351-1,000 ppm gives the oil change interval ¹ divided by 1.5.
			1,001-2,000 ppm gives the oil change interval ¹ divided by 2.
			More than 2,000 ppm gives the oil change interval ¹ divided by 4.

1. Oil change interval according to the oil change table in the Engine oil section.



Biodiesel

Scania currently approves 2 types of biodiesel: FAME in accordance with EN 14214 and HVO in accordance with EN 15940.

FAME EN 14214

The following applies to operation with FAME EN 14214:

- The fuel filter and oil filter have change intervals according to the tables in the Intervals for components and systems section.
- XPI engines which are prepared for FAME EN 14214 and run with FAME EN 14214 must use fuel filters adapted for FAME EN 14214.
- The oil viscosity class must be xW-40¹.
- The engine oil level must be checked regularly. If the oil level exceeds the maximum level, the oil must be changed.

¹ for PDE and HPI engines.

Exceptions

The following vehicles and engines must **not** use FAME EN 14214:

- Vehicles that have downtimes greater than 2 months.
- Buses with HPI engines.
- XPI engines that are not prepared for biodiesel.

Technical information on the injection system

It is important to know which injection system the vehicle in question is fitted with. One way to find out is to enter the chassis serial number in Scania Multi.

1. Enter the chassis serial number in the Workshop Manual.
2. Look under the Technical Information tab and section 1 Engine.

Switching between diesel and FAME EN 14214

Rules are in place for how switching between diesel EN 590 and FAME EN 14214 should take place. The rules must be followed to ensure that the vehicle operates properly after the switches. See Workshop Manual, 00:16-15, Fuels, lubricants and fluids. The following switches between diesel EN 590 and FAME EN 14214 are described:

- Switching from diesel EN 590 to FAME EN14214.
- Switching from FAME EN 14214 to diesel EN 590.



HVO EN 15940

Hydrotreated Vegetable Oil (HVO) is a paraffinic diesel, produced by hydrotreatment, which is extracted from vegetable oils and fats.

Hydrotreated fuels are free of sulphur and aromatics.

For all industrial and marine engines, Scania approves up to 100% HVO EN 15940 as a fuel.

Scania approves HVO EN 15940 as a fuel in its Euro 3, Euro 4, Euro 5 and Euro 6 diesel engines for trucks and buses.

Exceptions

See the table in 00:16-15 Fuel, lubricants and fluids under the HVO section for the chassis serial numbers approved for operation with HVO.

Switching between different fuels

Scania recommends renewing the fuel filter with each change of fuel type. When changing between different fuels, see 00:16-15: Fuels, lubricants and fluids, under the HVO section, for the actions required in each instance.

Properties of HVO EN 15940

- HVO must comply with EN 15940 requirements.
- HVO EN 15940 means no changes to the extent of maintenance, unlike diesel EN 590.
- During operation with HVO EN 15940, use the same maintenance programme as for vehicles that use EN 590 Diesel. The intervals for periodic maintenance can be found in the preface for each product.
- Examples of marketing names are BioMax, C.A.R.E, Neste MY or NEXBTL.
- HVO has similar thermal properties to diesel EN 590. The turbidity point is closer to -40°C, which means that it is fine to use HVO EN 15940 in colder climates.

- Auxiliary heater in buses: See the recommendations from the manufacturer for the auxiliary heater in question regarding HVO as a fuel.
- HVO has a lower energy content per unit of volume compared to diesel EN 590, which increases fuel consumption and reduces the output by 3-5%.
- HVO can be stored in the same conditions as diesel EN 590.
- HVO has lower density than EN 590 Diesel (780 kg/m³ compared to 800-840 kg/m³ for EN 590 Diesel).
- Scania recommends not mixing fuels from different markets. A fuel that is not mixed by a fuel manufacturer, may not have the same guaranteed quality compared to Scania standards. If there is a switch from e.g. FAME to HVO or fossil diesel, run the tank until it is empty before filling with the new fuel type.
- HVO has less environmental impact compared to fossil diesel.



Intervals for components and systems

Below is a summary of the maintenance programme regarding oil changes and filter renewal. Detailed information is provided in the respective maintenance forms.

The engine types have specified oil grades with associated oil change intervals for the different operation types. The tables are grouped according to emission class and fuel.

Change intervals for each engine type are based on the specified fuel. In the tables, an interval in kilometres is given, and in some cases also a maximum calendar interval or operating time. The interval which occurs first applies.

For information about renewing the fuel filter; see the Renewing the filter tables for the relevant fuel.

The sulphur content effect on the intervals



IMPORTANT!

The sulphur content of the fuel affects the oil change intervals. See the Sulphur content in fuel section.

Technical information on the vehicle

Proceed as follows to check vehicle technical information:

1. Enter the chassis serial number in the Workshop Manual.
2. Look under the Technical Information tab to obtain more information about the vehicle. This contains information on engine type, fuel, injection system, etc.



Engine oil

Factory filling of the engines

Information about which oil the engines have been topped up with at the factory can be found in the document Fuel, lubricants and fluids (00:16-15).

Diesel engines, also applies when operating with HVO EN 15940

Note:

For the engines which are approved for use with HVO EN 15940, see the table in Fuels, lubricants and fluids, under the HVO EN 15940 section.



IMPORTANT!

The sulphur content in diesel fuel must not exceed 50 ppm if the fuel is used together with engine oils with the quality designations:

- Scania LDF-4
- ACEA E6, E8, E9, E11
- API CJ-4, API CK-4

The oil grades listed are associated with the technical limitations for permitted sulphur content. Local legal requirements may be lower than the technical requirements above of max. 50 ppm sulphur.



IMPORTANT!

If the vehicle has a diesel particulate filter (DPF) aftertreatment management system with EGR/SCR, the sulphur content in the fuel must not exceed 10 ppm.



Euro 3, diesel



IMPORTANT!

The sulphur content in diesel fuel must not exceed 50 ppm if the fuel is used together with engine oils with the quality designations:

- Scania LDF-4
- ACEA E6, E8, E9, E11
- API CJ-4, API CK-4

The oil grades listed are associated with the technical limitations for permitted sulphur content. Local legal requirements may be lower than the technical requirements above of max. 50 ppm sulphur.

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC9 11 310 DC9 12 270 DC9 13 230	Scania LDF-4 Scania LDF-3	90,000	60,000	45,000
DC11 08 340 DC12 06 420 DC12 17 380 max. 10% FAME	Scania HD ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	60,000	45,000	30,000
DC09 114 250 DC09 115 310 DC13 106 460 DC13 107 410	Scania LDF-4 Scania LDF-3 Scania HD	90,000 60,000	60,000 45,000	45,000 30,000
DC13 108 360 max. 20% FAME	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	30,000	30,000	20,000



Euro 4, diesel



IMPORTANT!

The sulphur content in diesel fuel must not exceed 50 ppm if the fuel is used together with engine oils with the quality designations:

- Scania LDF-4
- ACEA E6, E8, E9, E11
- API CJ-4, API CK-4

The oil grades listed are associated with the technical limitations for permitted sulphur content. Local legal requirements may be lower than the technical requirements above of max. 50 ppm sulphur.

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC9 16 230 DC9 17 270 DC9 18 310	Scania LDF-4 Scania LDF-3	90,000	60,000	45,000
DC09 101 310 DC09 102 250	Scania HD	60,000	45,000	30,000
max. 20% FAME	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	45,000	30,000	20,000
DC09 137 320 max. 20% FAME	Scania LDF-4 Scania LDF-3	45,000	30,000	22,500
	Scania HD	30,000	22,500	15,000
	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	22,500	15,000	10,000
DC12 10 340 DT12 03 470 DT12 12 420 DT12 17 480	Scania LDF-4 Scania LDF-3	90,000	60,000	45,000
	Scania HD ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	60,000	45,000	30,000



Intervals for components and systems

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC13 102 440 DC13 103 400 DC13 104 360 max. 20 % FAME	Scania LDF-4 Scania LDF-3	90,000	60,000	45,000
	Scania HD	60,000	45,000	30,000
	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	45,000	30,000	20,000

**Euro 5/EEV, diesel****IMPORTANT!**

The sulphur content in diesel fuel must not exceed 50 ppm if the fuel is used together with engine oils with the quality designations:

- Scania LDF-4
- ACEA E6, E8, E9, E11
- API CJ-4, API CK-4

The oil grades listed are associated with the technical limitations for permitted sulphur content. Local legal requirements may be lower than the technical requirements above of max. 50 ppm sulphur.

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC9 24 360 DC9 29 280 DC9 30 230 DC9 32 320 DC09 117 230 max. 20% FAME	Scania LDF-4 Scania LDF-3	90,000	60,000	45,000
	Scania HD	60,000	45,000	30,000
	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	45,000	30,000	20,000
DC09 109 250 DC09 110 310 DC13 112 440 DC13 113 400 DC13 114 360 DC13 120 400 max. 20% FAME	Scania LDF-4 Scania LDF-3	90,000	60,000	45,000
	Scania HD	60,000	45,000	30,000
	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	45,000	30,000	20,000
DC12 15 420 DC12 18 380 max. 10% FAME	Scania LDF-4 Scania LDF-3	90,000	60,000	45,000
	Scania HD	60,000	45,000	30,000
	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	45,000	30,000	20,000



Intervals for components and systems

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC13 05 400	Scania LDF-3	75,000	60,000	45,000
DC13 06 360	Scania LDF-4 Scania HD	45,000	45,000	30,000
DC13 07 480				
DC13 10 440	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	30,000	30,000	20,000
max. 20% FAME				



Intervals for components and systems

Euro 6, diesel



If the vehicle has a diesel particulate filter (DPF) aftertreatment management system with EGR/SCR, the sulphur content in the fuel must not exceed 10 ppm.



When changing the engine oil grade is required, replacing the particle filter should also be done at the same time.

The reason for this is that the particulate filter renewal interval should be correct.

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC07 101 280 max. 20% FAME	Scania LDF-3 Scania LDF-4 ACEA E6, E8, E9, E11 API CI-4, CK-4	-	22,500 km ¹ /1,500 h/6 months	
DC09 108 320 DC09 111 250 DC09 112 360	Scania LDF-4 Scania LDF-3	90,000	60,000	45,000
DC09 113 280 DC13 109 440 DC13 110 480 DC13 115 410 DC13 124 450 DC13 125 490 DC13 147 450 max. 20% FAME	ACEA E6, E8, E9, E11 API CJ-4, CK-4	45,000	30,000	20,000

1. The information applies at speeds around 15 km/h.



Engines, operation with FAME EN 14214

For information about fuel filter change intervals, see the section Other engine and fuel components, FAME EN 14214.

Euro 3, Operation with FAME EN14214, PDE



IMPORTANT!

Diesel fuel must not exceed 50 ppm if the fuel is used together with engine oils with the quality designations:

- Scania LDF-4
- ACEA E6, E8, E9, E11
- API CJ-4, API CK-4

The oil grades listed are associated with the technical limitations for permitted sulphur content. However, local legal requirements may be lower than the above technical requirements for a maximum of 50 ppm sulphur in the fuel.

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC9 11 310 DC9 12 270 DC9 13 230	Scania LDF-4 Scania LDF-3	30,000 ¹	30,000 ¹	30,000 ¹
DC11 08 340 DC12 06 420 DC12 17 380	Scania HD ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	30,000 ¹	30,000 ¹	15,000
DC09 114 250 DC09 115 310	Scania LDF-4 Scania LDF-3	30,000 ¹	30,000 ¹	30,000 ¹
	Scania HD	30,000 ¹	30,000 ¹	15,000
	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	15,000	15,000	10,000



Intervals for components and systems

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC13 106 460 DC13 107 410 DC13 108 360	Scania LDF-4 Scania LDF-3	30,000 ¹	30,000 ¹	30,000 ¹
	Scania HD	30,000 ¹	30,000 ¹	15,000
	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	15,000	15,000	10,000

1. For PDE engines with oil change intervals exceeding 20,000 km, Scania recommends an intermediate X maintenance event with associated fuel filter renewal.



Euro 4, Operation with FAME EN 14214, PDE



IMPORTANT!

Diesel fuel must not exceed 50 ppm if the fuel is used together with engine oils with the quality designations:

- Scania LDF-4
- ACEA E6, E8, E9, E11
- API CJ-4, API CK-4

The oil grades listed are associated with the technical limitations for permitted sulphur content. However, local legal requirements may be lower than the above technical requirements for a maximum of 50 ppm sulphur in the fuel.

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC9 16 230 DC9 17 270 DC9 18 310	Scania LDF-4 Scania LDF-3	30,000 ¹	30,000 ¹	30,000 ¹
DC09 101 310 DC09 102 250	Scania HD	30,000 ¹	30,000 ¹	30,000 ¹
	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	30,000 ¹	30,000 ¹	15,000
DC13 102 440 DC13 103 400	Scania LDF-4 Scania LDF-3	30,000 ¹	30,000 ¹	30,000 ¹
	Scania HD	30,000 ¹	30,000 ¹	15,000
	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	15,000	15,000	10,000

1. For PDE engines with oil change intervals exceeding 20,000 km, Scania recommends an intermediate X maintenance event with associated fuel filter renewal.



Euro 5/EEV, Operation with FAME EN 14214, PDE



IMPORTANT!

Diesel fuel must not exceed 50 ppm if the fuel is used together with engine oils with the quality designations:

- Scania LDF-4
- ACEA E6, E8, E9, E11
- API CJ-4, API CK-4

The oil grades listed are associated with the technical limitations for permitted sulphur content. However, local legal requirements may be lower than the above technical requirements for a maximum of 50 ppm sulphur in the fuel.

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC09 109 250 DC09 110 310	Scania LDF-4 Scania LDF-3	30,000 ¹	30,000 ¹	30,000 ¹
DC13 112 440 DC13 113 400	Scania HD	30,000 ¹	30,000 ¹	15,000
DC13 114 360 DC13 120 400	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	15,000	15,000	10,000

1. For PDE engines with oil change intervals exceeding 20,000 km, Scania recommends an intermediate X maintenance event with associated fuel filter renewal.



Euro 5/EEV, XPI prepared for FAME EN 14214



IMPORTANT!

Diesel fuel must not exceed 50 ppm if the fuel is used together with engine oils with the quality designations:

- Scania LDF-4
- ACEA E6, E8, E9, E11
- API CJ-4, API CK-4

The oil grades listed are associated with the technical limitations for permitted sulphur content. However, local legal requirements may be lower than the above technical requirements for a maximum of 50 ppm sulphur in the fuel.

XPI engines prepared for FAME EN 14214, run on FAME EN 14214

Note:

Check that the engine is prepared for biodiesel operation in the Workshop Manual under the Technical information tab.

For information about fuel filter change intervals, see the section Other engine and fuel components, biodiesel.

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC9 24 360 DC9 29 280 DC9 30 230 DC9 32 320 DC09 117 230	Scania LDF-4 Scania LDF-3	55,000 ¹	40,000 ¹	30,000
	Scania HD	45,000 ¹	30,000	15,000
	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	20,000	15,000	10,000



Intervals for components and systems

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC13 05 400 DC13 06 360	Scania LDF-3	55,000 ¹	40,000 ¹	30,000
DC13 07 480 DC13 10 440	Scania LDF-4 Scania HD	45,000 ¹	30,000	15,000
	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	20,000	15,000	10,000

1. For XPI engines with oil change intervals exceeding 30,000 km, Scania recommends an interim X inspection with associated fuel filter renewal.



Euro 6, XPI approved for FAME EN 14214

IMPORTANT!

If the vehicle has a diesel particulate filter (DPF) aftertreatment management system with EGR/SCR, the sulphur content in the fuel must not exceed 10 ppm.

IMPORTANT!

When changing the engine oil grade is required, replacing the particle filter should also be done at the same time.

The reason for this is that the particulate filter renewal interval should be correct.

IMPORTANT!

Only applies to the engine types indicated in the table.



Intervals for components and systems

XPI engines approved for FAME EN 14214, run on FAME EN 14214



IMPORTANT!

Only applies to vehicles manufactured **from** the date specified next to each listed engine.

For information about fuel filter change intervals, see the section Other engine and fuel components, biodiesel.

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1.5 years		
DC09 108, February 2014 DC09 112, February 2014	Scania LDF-4 Scania LDF-3	55,000 ¹	40,000 ¹	30,000
DC13 124, May 2014 DC13 125, May 2014	ACEA E6, E8, E9, E11 API CJ-4, CK-4	20,000	15,000	10,000

1. For XPI engines with oil change intervals exceeding 30,000 km, Scania recommends an interim X inspection with associated fuel filter renewal.



Gas engines

Euro 5 and EEV gas, engine oil changed and spark plug renewed at the same time, as per maintenance forms S, M, L

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km, operating time in hours or calendar time ¹		
OC09 G04 270 OC09 G05 310	Scania LDF-4	30,000	30,000	30,000
		900 h		
		1 year		
	ACEA E6, E8, E9, E11 API CJ-4 API CK-4	30,000	20,000	20,000
		450 h		
		1 year		

1. Maintenance is carried out at the interval reached first.

Euro 5 and EEV-gas, engine oil only

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km, operating time in hours or calendar time ¹		
OC09 G04 270 OC09 G05 310	Scania LDF-4	45,000	30,000	30,000
		900 h		
		1 year		
	ACEA E6, E8, E9, E11 API CJ-4 API CK-4	30,000	20,000	20,000
		450 h		
		1 year		

1. Maintenance is carried out at the interval reached first.



Euro 6 gas, engine oil and spark plugs are renewed at the same time, as per maintenance form S, M, L

From chassis serial number 1 907 083 onwards:

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km, operating time in hours or calendar time ¹		
OC09 101 280 OC09 102 340 OC09 106 320	Scania LDF-4	45,000	30,000	30,000
		900 h		
		1 year		
	ACEA E6, E8, E9, E11 API CJ-4 API CK-4	30,000	20,000	20,000
		450 h		
		1 year		

1. Maintenance is carried out at the interval reached first.

Up to and including chassis serial number 1 907 082

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km, operating time in hours or calendar time ¹		
OC09 101 280 OC09 102 340 OC09 106 320	Scania LDF-4	30,000	30,000	30,000
		900 h		
		1 year		
	ACEA E6, E8, E9, E11 API CJ-4 API CK-4	30,000	20,000	20,000
		450 h		
		1 year		

1. Maintenance is carried out at the interval reached first.



Euro 6 gas, engine oil only

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km, operating time in hours or calendar time ¹		
OC09 101 280 OC09 102 340 OC09 106 320	Scania LDF-4	45,000	30,000	30,000
		900 h		
		1 year		
	ACEA E6, E8, E9, E11 API CJ-4 API CK-4	30,000	20,000	20,000
		450 h		
		1 year		

1. Maintenance is carried out at the interval reached first.

EEV, ethanol

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1 year		
DC9E 02 270 <i>Note: Do not mix the oil grades Bioethanol and BEO-2</i>	Scania BEO-2	-	20,000	20,000
	Scania Bioethanol	-	10,000	10,000

Euro 6, ethanol

Engine type	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time 1 year		
DC09 116 280	Scania BEO-2	20,000	20,000	20,000



Transmission

Oil change intervals

Component	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time		
Manual gearbox GR801/R	STO 1:1 G	240,000 or 3 years	120,000 or 3 years	90,000 or 3 years
	STO 2:0 G STO MTF			
Manual gearbox GR/S/ O/875/895	STO 1:1 G	240,000 or 3 years	180,000 or 3 years	90,000 or 3 years
	STO 2:0 G STO MTF	360,000 or 3 years		
GRS895 in hybrid vehicles ¹	STO MTF	360,000 or 3 years	180,000 or 3 years	90,000 or 3 years
Manual gearbox G701 ZF, Classic Line S6-1550 ²	ZF TE-ML 02 02E	540,000 or 3 years	360,000 or 3 years	360,000 or 3 years
	ZF TE-ML 02 02B/02H	160,000 or 1 year	120,000 or 1 year	120,000 or 1 year
Automatic gearbox ZF, Ecomat ³	ZF TE-ML at least 14C	-	120,000 or 2 years	120,000 or 2 years
The ZF type designation begins with 6HP	ZF TE-ML 14E ⁴	-	150,000 or 3 years	150,000 or 3 years
Automatic gearbox ZF, Ecomat, in N buses with gas engine	ZF TE-ML 14E	-	-	150,000 or 3 years
Automatic gearbox ZF, Ecolife	ZF TE-ML 20F or 20G	-	240,000 or 4 years	240,000 or 4 years
The ZF type designation begins with 6AP				



Intervals for components and systems

Component	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time		
Automatic gearbox ZF, Ecolife, with DC9 24	ZF TE-ML 20F or 20G	-	180,000 or 3 years	180,000 or 3 years
Automatic gearbox Allison ⁵	ATF TES 389	-	20,000 or 6 months	20,000 or 6 months
	ATF TES 295 ATF TES 668	-	120,000 or 3 years	120,000 or 3 years
Automatic gearbox, Voith DIWA.5	See document H55.633544 ⁶	60,000 or 2 years	60,000 or 2 years	60,000 or 2 years
	See document H55.633644 ⁴	120,000 or 3 years	120,000 or 3 years	60,000 or 3 years
Central gears with filter	STO 1:0	240,000 or 3 years	180,000 or 3 years	90,000 or 3 years
	STO 2:0 A	360,000 or 3 years		
Central gear with hub reduction gear RP835	STO 1:0	-	90,000 or 3 years	90,000 or 3 years
	STO 2:0 A			
ZF portal axle ⁷	ZF TE-ML 12B or 12E	-	-	150,000 or 3 years
	ZF Ecofluid X SAE 80W-90			180,000 or 3 years

- Note that STO MTF is the only permitted oil grade in connection with hybrid operation.
- For more information on oil change intervals and oil grades, see ZF's website, www.zf.com, ZF TE-ML 02.
- On delivery from the factory, the gearbox is filled with oil according to ZF TE-ML 14E. The extended interval can be used if class 14 E oil has always been used. If an oil other than class 14 C has been used, 2 oil changes with class 14 E are required before the extended intervals can be applied. This is because it is not possible to drain the entire oil volume during the oil change.
- This oil is recommended to maintain the function and service life of the gearbox.
- If the gearbox has been filled with oil grade TES 389, then 2 oil changes with TES 295 or TES 668 must be made before the extended interval can be applied. For more information about oil change intervals, refer to www.allisontransmission.com. Select the region from the map, click on Service and select Fluid/Filter Change Intervals.
- Download the document for oils with change intervals up to 60,000 km from Voith's website, www.voith.com. Also refer to other information about oil change intervals and oil grades.
- The Scania designation and the corresponding designation for the ZF axle gear is as follows: ADA 1250 = ZF AV 132/80, ADA 1251 = ZF AV 132/90. The AV series does not have a differential lock and is described as follows in ZF information: without multi-disc self-locking differentials. ZF's list of lubricants can be downloaded from the ZF website, www.zf.com.



Oil change intervals, Retarder

Component	Oil grade ¹	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time		
Retarder: type 1	ATF oil which complies with Allison C4 or Dexron III	180,000 or 3 years	120,000 or 3 years	90,000 or 3 years
	Engine oil SAE 5W-30 or SAE 10W-30 which complies with Allison C4			
Retarder: type 2	Engine oil 10W-30 or 15W-40 which complies with ACEA E7	240,000 or 3 years	180,000 or 3 years	90,000 or 3 years
	Engine oil 10W-30 or 10W-40 which complies with Allison C4			
	STO Retarder/ATF oil compliant with Allison C4 or Dexron III	360,000 or 3 years	180,000 or 3 years	90,000 or 3 years

1. It is permitted to mix engine oil and STO Retarder oil. It is then the oil with the shortest change interval that determines when the oil should be changed. Note: It is not recommended to mix ATF oil (Automatic transmission fluid) with oil grade STO Retarder or engine oil.

Renewing the clutch fluid, transmission

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km or calendar time		
Clutch fluid ¹	240,000 or 2 years	120,000 or 2 years	90,000 or 2 years

1. Applies to both clutch with clutch pedal and Scania Opticruise.



Other engine and fuel components, diesel and HVO operation

This section describes the intervals for the following components:

- Renewing the fuel filter and CCV filter.
- Renewing the particulate filter.
- Cleaning the V185 injection valve.
- Maintenance of the centrifugal oil cleaner.
- Renewing the reductant filter in the SCR system.



Renewing the filter, diesel and HVO operation

Note:

HVO EN15940 is approved for certain engines. For more information, see 00:16-15. Fuels, lubricants and fluids, section HVO EN 159 40.

Note:

If the FAME content in the fuel is higher than 7%, the fuel filter interval may need to be adjusted.

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km/operating time in hours/calendar time in years		
HPI fuel filter	60,000	45,000	30,000
Fuel filter for other engines. Also applies to engines approved for biodiesel operation but which are run on diesel (EN 590) and HVO (EN15940).	Same interval as the engine oil change interval, but a maximum of 1 year. In order for the fuel filters to withstand the long intervals that the engine oil allows, the fuel must be free of contaminants. If contaminated fuel is used, the local market must adjust the change intervals. The Scania-generated maintenance plans are based on the use of clean fuel.		
CCV filter, DC07	-	22,500 km ¹ or 3,000 hours	

1. The information is applicable at speeds of approx. 15 km/h.



Euro 6, diesel and HVO operation – Cleaning the V185 injection valve

Note:

The V185 injection valve is now cleaned at the same intervals as particulate filter renewal for Euro 6 D9/D13. See the table Change intervals for particulate filters. The cleaning applies only to DC09 111 and DC09 113 which are fitted with the V185 injection valve.

Renewal of particulate filter (DPF), diesel operation and HVO operation.

Note:

Use the intervals table for particulate filter to obtain the correct change intervals for Euro 6 engines.

Note:

Renewing the particulate filter is not included in technical packages. Renewing the particulate filter needs to be added as an extra item in the contract.



IMPORTANT!

If the vehicle has a diesel particulate filter (DPF) aftertreatment management system with EGR/SCR, the sulphur content in the fuel must not exceed 10 ppm.



IMPORTANT!

When changing the engine oil grade is required, replacing the particle filter should also be done at the same time.

The reason for this is that the particulate filter renewal interval should be correct.



Intervals for components and systems

Engine	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or operating time in hours		
DC07 101 280	Scania LDF-3 Scania LDF-4 ACEA E6, E8, E9, E11 API CJ- 4, CK-4	-	2,500 km ¹ , 1,500 hours or 6 months.	
DC09 108 320 DC09 111 250 DC09 112 360 DC09 113 280	Scania LDF-4 ACEA E6, E8, E9, E11 API CJ- 4, CK-4	378,000	262,000	189,000
	Scania LDF-3	193,000	134,000	96,000
DC13 109 440 DC13 110 480 DC13 115 410 DC13 124 450 DC13 125 490	Scania LDF-4 ACEA E6, E8, E9, E11 API CJ- 4, CK-4	605,000	420,000	302,000
DC13 147 450	Scania LDF-3	308,000	214,000	154,000

1. The information applies at speeds around 15 km/h.



Maintaining the centrifugal oil cleaner, diesel operation and HVO operation

Engine type	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
Euro 6 engines	At every other oil change, i.e. at M and L maintenance events.		
With lower emission class than corresponding to Euro 6, diesel operation	At each oil change, i.e. at each S, M and L maintenance event.		

Renewing the reductant filter in the SCR system, diesel and HVO operation

Engine	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km or calendar time		
Prefilter and reductant filter for Euro 4/Euro 5 DC09, DC13	120,000 or 2 years	120,000 or 2 years	80,000 or 2 years
Euro 6 DC07	-	-	90,000 km ¹ or 6,000 hours
Euro 6 DC09, DC13	400,000 or 5 years	400,000 or 5 years	250,000 or 5 years

1. The information applies at speeds around 15 km/h.



Other engine and fuel components, operation with FAME EN 14214

This section describes the intervals of components that differ during operation with FAME EN 14214 compared to diesel operation/HVO operation.

- Renewing the fuel filter.
- Renewing the particulate filter (Euro 6, XPI).

Renewing the filter, operation with FAME EN 14214

Note:

Special intervals apply when switching between diesel EN 590 and FAME EN 14214. For more information, see section FAME EN 14214 in this document and Fuel, lubricants and fluids (00:16-15).

Component		Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time		
Biodiesel fuel filter. Engines approved or prepared for biodiesel operation. The engine runs on biodiesel (EN 14214) ¹ .	PDE	20,000	10,000	5,000
	XPI	30,000	30,000	30,000

1. More than 7% mixture biodiesel EN 14214.



Euro 6, XPI, prepared for operation with FAME EN 14214

Renewing the oxidation catalytic converter

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven km		
Oxidation catalytic converter	250,000		

Renewing the particulate filter

Note:

Renewing the particulate filter is not included in technical packages. Renewing the particulate filter therefore needs to be added as an extra item in the contract.



IMPORTANT!

When changing the engine oil grade is required, replacing the particle filter should also be done at the same time.

The reason for this is that the particulate filter renewal interval should be correct.

All maintenance forms (S, M and L) contain the check step “Check whether the particulate filter should be renewed” as it is difficult to ascertain the exact point when it should be renewed. SDP3 is used to check whether the particulate filter needs to be renewed.



Intervals for components and systems

Engine	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven km		
DC09 108, February 2014 DC09 112, February 2014	Scania LDF-4 ACEA E6, E8, E9, E11 AP1 CJ-4, CK-4	248,000	172,000	124,000
	Scania LDF-3	152,000	106,000	76,000
DC13 124, May 2014 DC13 125, May 2014	Scania LDF-4 ACEA E6, E8, E9, E11 AP1 CJ-4, CK-4	329,000	228,000	165,000
	Scania LDF-3	216,000	150 000	108,000



Other engine and fuel components, ethanol

This section describes the intervals for the following components:

- Renewing the fuel filter.
- Centrifugal oil cleaner maintenance.
- Unit injector renewal.
- Renewing the particulate filter (Euro 6, PDE).

Renewal of fuel filter, ethanol operation

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
Fuel filter	Same as engine oil change interval.		

Centrifugal oil cleaner maintenance, ethanol operation

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
Centrifugal oil cleaner, maintenance.	At each oil change, i.e. at each S, M and L maintenance event.		

Renewal of unit injector, ethanol operation

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven km		
Unit injector	40,000		



Euro 6, PDE, ethanol operation

Renewing the particulate filter

Note:

Renewing the particulate filter is not included in technical packages. Renewing the particulate filter therefore needs to be added as an extra item in the contract.

All maintenance forms (S, M and L) contain the check step “Check whether the particulate filter should be renewed” as it is difficult to ascertain the exact point when it should be renewed. SDP3 is used to check whether the particulate filter needs to be renewed.

Engine	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven km		
DC09 116 280	Scania BEO-2	378,000	262,000	189,000



Other engine and fuel components, gas

Note:

See important information about oil change intervals for gas engines in the section on oil change intervals for engines.

Euro 5, gas operation

Euro 5 spark plug renewal.	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km or calendar time		
OC09 G04 270 OC09 G05 310	30,000	30,000	30,000

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km, operating time in hours or calendar time ¹		
Renewing low pressure gas filter CNG	120,000 km		
	3000 h		
	2 years		
Renewing low pressure gas filter LNG	240,000 km		
	4,000 h		
	2 years		
Checking gas bottles and gas tank package	1 year		

1. Maintenance is carried out at the interval reached first.



Euro 6, gas operation

Renewal of spark plug, from and including chassis serial number 1 907 083

Engine type	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km or calendar time		
OC09 101 280 OC09 102 340 OC09 106 320	45,000	45,000	30,000

Renewal of spark plugs, up to and including chassis serial number 1 907 082

Engine type	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km or calendar time		
OC09 101 280 OC09 102 340 OC09 106 320	30,000	30,000	30,000

Note:

See important information about oil change intervals for gas engines in the section on oil change intervals for engines.



Renewal of other components

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km, operating time in hours or calendar time ¹		
Renewing the dump valve	120,000		
Renewing low pressure gas filter CNG	120,000 km		
	3000 h		
	2 years		
Renewing low pressure gas filter LNG	240,000 km		
	4,000 h		
	2 years		
Renewing the gas line above the articulation unit. Applies to articulated buses.	3 years		
Checking gas bottles and gas tank package.	1 year		
Renewing relief valves on gas tanks, LNG	5 years		

1. Maintenance is carried out at the interval reached first.

Checking the centrifugal oil cleaner, gas operation

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
Centrifugal oil cleaner, check for leakage. Applies to all Euro 5 and 6 engines with gas operation and centrifugal oil cleaner.	At every other oil change, i.e. at M and L maintenance events.		



Other engine and fuel components, hybrid vehicles

Intervals for hybrid vehicles

Component	Oil grade	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
		Distance driven in km or calendar time		
Renewing the battery filter and diaphragm ¹	-	-	-	3 years
Renewing drive belts ²	-	-	-	240,000 or 2 years
Oil change, renewal of oil filter and gasket in electric machine (GRS895).	STO EV	150,000 or 3 years		

1. Applicable to all batteries, except RES2. For more information about the different batteries, see the instructions in 00:21-61/7, Hybrid section.

2. The renewal includes idler rollers, drive belt and belt tensioner.



Engine air filter

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km or calendar time		
Air filter cartridge ¹	120,000 or 2 years	120,000 or 2 years	90,000 or 2 years

1. Use the air filter indicator to determine whether the air filter needs renewing.

Coolant

Change intervals for cooling system components

Coolant - applies to vehicles with a combustion engine

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km or calendar time		
Coolant	,600,000 or 4 year		450,000 or 3 years
Hydraulic fan system, filter	240,000	120,000	90,000

Frame

Renewing the bush in the articulation unit

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km or calendar time		
Articulation unit bush, renewal	Check once a year, renew if necessary.		



Brake

Checking the brake system

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Calendar time		
Brake system, check ¹	1 year		

1. The Scania workshop or an authority can carry out the check.

Air dryer

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km or calendar time		
Air dryer: Desiccant container	360,000 or 2 years	240,000 or 2 years	180,000 or 2 years

Steering

Renewing the power steering filter

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Distance driven in km or calendar time		
Power steering, renewing the filter	240,000	120,000	90,000



Scania bus bodies

Change intervals for components in the auxiliary heater

Component	Operation type 1 Long-distance services	Operation type 2 Suburban and regular services	Operation type 3 City services
	Calendar time		
Fuel filter; diesel/ethanol operation	1 year		
Fuel pump; FAME/ethanol operation	2 years		
Fuel pump; diesel/HVO operation	5 years		
Gas regulator; gas operation	4 years		



Preventive renewals

By carrying out preventive renewals the risk of unplanned stops for the vehicle is reduced. This is a way of thinking ahead to avoid unplanned downtime in advance. Preventive renewal is an optional complement to the vehicle's standard maintenance programme.

Preventive component renewal must be done with the aim of improving the customer's total economy. This means that the aim of preventive renewal must always be profitability for the customer. As there are several factors working together, it is not always simple to assess profitability.

The following are basic factors in the assessment:

- Customer's cost for unplanned stops.
- Consequential damage stemming from a failed component.
- The likelihood of a fault occurring.

The likelihood of a fault occurring is difficult to assess without knowing the vehicle's operating environment and the customer's expected usage and handling of the vehicle. The overall assessment is therefore best done through consultation with the customer. There is then a discussion of the above factors, which must be weighed against the increased maintenance cost. It is important to emphasise that preventive renewal does not guarantee that no breakdowns will occur. Preventive renewal reduces the likelihood of unplanned stops and thereby contributes to increased profitability for the customer.