



00:17-30 Issue: 29 en-GB

Preface to periodic maintenance

00:17-30 L, P, G, R and S series



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Ändringar från föregående utgåva

	Engine oil			
Intervals for components and systems	All engine types			
	The table of oil grades and associated engine types has been updated according to the information in the TI in connection with Multi 2205.			
	Please note that the intervals are unchanged.			
	Current engines			
	Oil grade LDF-5 has been added to the warning window indicating the maximum sulphur content of 10 ppm for the fuel. Oil grade LDF-4 is already shown in this box.			
	Particulate filter			
	The oil grades have been updated for all engine types that use particulate filters. The oil grades in the particulate filter tables then correspond to the updates made for the engine oils.			
	Please note that no intervals for particulate filter renewal have changed.			



Förord

A Scania vehicle is designed to provide good transport economy. Regular maintenance is vital for optimum service life of a Scania vehicle. It is also necessary to retain good driveability and operational reliability and to 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 the maintenance programme should be adapted to different operating conditions and bodywork.
- Possible local adaptations to the maintenance programme.
- The environment in which the vehicle is driven may require extra maintenance.



Planera underhåll

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.

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
- 9. The effect of any bodywork on the interval
- 10. Electric powertrain maintenance requirements.

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 schedule 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.



Scanias underhållsprogram

Standard maintenance

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.

- Large pre-delivery inspection (D): Performed by Scania workshops when the vehicle bodywork is built before delivery to the customer.
 - The vehicle is equipped and fitted with bodywork by an external bodybuilder. A check whether the declaration of conformity document is available in the vehicle takes place during the pre-delivery inspection. The document is issued by the company performing the bodybuilding.
 - If the above condition is not met, carry out a Small pre-delivery inspection.
- Small pre-delivery inspection (D): Carried out by Scania workshops prior to delivery to the customer. Only performed on vehicles that satisfy the following requirements:
 - The vehicle is delivered directly from the factory via the dealer to the customer.
 - The vehicle is a tractor with 4x2, 6x2 or 6x4 wheel configuration that has not been converted.
 - If the requirements are not satisfied, carry out a Large-scale pre-delivery inspection.
- R maintenance (running-in maintenance): Carried out by Scania workshops no later than 6 weeks or 20,000 km after delivery to the customer. Includes the following:
 - Checking fluid levels
 - Checking attachments
 - Look for damage
- S maintenance: Minimum basic maintenance. May contain the following:
 - Engine oil change
 - Transmission oil change
 - Filter renewal
 - Lubrication: Cab and chassis
- M maintenance: More extensive maintenance. May contain the following:
 - Engine oil change
 - Transmission oil change
 - Filter renewal
 - Lubrication, chassis
 - Renewing the oxidation catalytic converter
- L maintenance: Includes all maintenance items. May contain the following:
 - Engine oil change
 - Transmission oil change
 - Filter renewal
 - Lubrication



- Brake test



Maintenance as option

- X maintenance: Mainly concerns an extra chassis lubrication; refer to X maintenance.
- XO maintenance: In principle, comprises 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, see the section Preventive renewals.



Maintenance sequence

Without X:

S-M-S-L = 1 period

With X:

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



The periodic maintenance report is available, for example, in Scania Multi. Select the Maintenance function button in the menu bar.



Operation types and programmes

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

Operation types are divided into the following categories:

- Very light long distance transport
- Light long distance transport
- · Long distance transport
- · Heavy long distance transport
- Construction operations
- Short haul distribution operations

Please note that the bar charts for each operation type indicate the maximum maintenance interval.

With this in mind, choose the operation type that most closely resembles the operating conditions.

The "Intervals for components and systems" section contains information about time intervals if a fuel other than diesel is used.

Operation type 0:0, Very light long distance transport



The specified intervals are examples of maximum distances driven between maintenance events.

- Fuel consumption is less than 28 litres/100 km.
- Travel is without obstacles, i.e. fewer than 20 stops or major decelerations per 100 km.
- Idling and power take-off operation is less than 25% of the total operating time.
- Gross weight is typically below 36 tonnes.
- Average speed is typically over 70 km/h.
- Transport example: General cargo or bulk goods.
- Application example: Tractor with various semi-trailers, truck with box body or curtainsider.
- 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 0, Light long distance transport



The specified intervals are examples of maximum distances driven between maintenance events.

- Fuel consumption is less than 33 litres/100 km.
- Travel is without obstacles, i.e. fewer than 20 stops or major decelerations per 100 km.
- Idling and power take-off operation is less than 25% of the total operating time.
- Gross weight is typically below 40 tonnes.
- Average speed is typically over 70 km/h.
- Transport example: General cargo or bulk goods.
- Application example: Tractor with various semi-trailers, truck with box body or curtainsider.
- 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 1, Long distance transport



The specified intervals are examples of maximum distances driven between maintenance events.

- Fuel consumption is less than 42 litres/100 km.
- Like operation type 0, but with higher load on the powertrain due to higher gross weight.
- Travel is without obstacles, i.e. fewer than 20 stops or major decelerations per 100 km.
- Idling and power take-off operation is less than 25% of the total operating time.
- Gross weight is typically below 45 tonnes.
- Average speed is typically over 60 km/h.
- Transport example: General cargo.
- Application example: Tractor with various semi-trailers, truck with box body or curtainsider.
- 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, Heavy long distance transport



The specified intervals are examples of maximum distances driven between maintenance events.

- Fuel consumption is greater than 42 litres/100 km.
- Like operation type 0 or 1, but with higher load on powertrain and chassis due to greater gross weight or hilly topography.
- Gross weight is typically over 45 tonnes.
- Average speed is typically over 50 km/h.
- Transport example: Bulk, timber, gravel or construction machines.
- Application example: Truck or tractor with hooklift, swap body, flatbed truck, timber truck or tanker.
- 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, (Off-road) construction operations



The specified intervals are examples of maximum distances driven between maintenance events.

• There are high or extremely high levels of the climate factors dust, dirt, snow and salt.

AND:

• Total idling and power take-off operation is more than 25% of the total operating time.

OR:

- Traffic is heavy, i.e. more than 150 stops or major decelerations per 100 km.
- Transport example: Gravel, crushed rock, ore, concrete or waste.
- Application example: Truck with tipper body, swap body, concrete mixer truck or flatbed truck with crane.
- 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 4, Short-haul distribution operations



The specified intervals are examples of maximum distances driven between maintenance events.

• Total idling and power take-off operation is more than 25% of the total operating time.

OR:

- Traffic is extremely heavy, i.e. more than 250 stops or major decelerations per 100 km.
- Gross weight is typically below 36 tonnes.
- Average speed is typically below 40 km/h.
- Transport example: Local or regional distribution of products such as food, medicine or electronic products.
- Application example: Truck with box body, temperature controlled truck or tanker.
- 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.



Tillägg och anpassningar

This chapter describes maintenance programmes which are adapted for special operations and vehicle types.

Under certain circumstances, it may be necessary to supplement the maintenance with X and/or XO maintenance. These programmes are optional additions to the ordinary maintenance programme.

Below there is also a presentation of:

- Programme for fully electric vehicles
- Program when a large proportion of the operating time takes place in idling mode, with active power take-off



X maintenance



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

The maintenance programme for the vehicle may be supplemented with X maintenance in certain circumstances.

Here are some examples of circumstances that may necessitate X maintenance:

- Poor, partly unsurfaced roads that do not allow the driver to maintain a uniform vehicle speed.
- Dusty conditions
- Humid environments
- The vehicle is washed frequently
- Fuel quality
- Driving on roads that are frequently gritted throughout the season.
- Extra lubrication of the chassis and checks of e.g. bodywork and extra equipment are necessary.
- The customer wants intermediate maintenance in order to shorten the time between workshop visits.
- X maintenance includes, among other things:
- · Checking batteries
- Checking the brake lining thickness
- · Lubricating the chassis



XO maintenance



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

XO maintenance includes in principle the same maintenance items as X maintenance, but with a number of additions, such as:

- Engine oil change
- Checking the brake lining thickness
- Renewing the fuel filter
- Maintenance of the centrifugal oil cleaner

Here are a couple of factors that affect whether XO maintenance is required:

- The operation includes more idling than is found in ordinary driving time.
- More frequent oil change intervals due to operation with a high sulphur fuel.

Examples of transport where this is relevant: Buses in urban traffic, vehicles with slurry suction units or refuse collection trucks.



Programme for ethanol-powered vehicles

For information about Oils, refer to the document 00:16-15 Fuel, lubricants and fluids.

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

With engine oil grade Scania BEO-2



Operation type 0:0, 0





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



Programme for mining operation

Typical operating conditions for mining operation

- Very hilly with 10% gradients, sometimes 20%.
- High gross laden train weight at low speeds, generally on unsurfaced roads.
- Frequent starts and stops.
- The vehicles are often operated in shifts up to 22 hours a day.



Maintenance cycle for mining operation

Maintenance cycles, forms and intervals may be considered guidelines.

These are set after an analysis of local driving conditions.

Hours	Maintenance items
150-200 hours (X)	Lubrication and checks
250-500 hours (S)	Engine oil change and checks
500-1,500 hours (M)	Engine oil change and current checks. Any transmission oil change, if this is included in a valid maintenance plan.
1,000-3,000 hours (L)	Extensive maintenance on the entire vehicle

Oil grade requirements

Component	Oil grade	Viscosity
Euro 3-6 engine	Refer to the interval table for the relevant engine in the section <i>Engine oil</i> .	-
Transmission	Refer to the interval table for the relevant transmission component in the section <i>Transmission</i> .	See the information in the document 00:16-15, <i>Fuel, lubricants and fluids</i> .
Retarder	See the interval table for retarder type 2 in the section <i>Transmission</i> .	-



Programme for fully electric vehicles

Periodic maintenance interval

Fully electric	Operation type								
venicles	0:0	0	1	2	3	4			
		Distance driven in km							
Maintenance interval: See the relevant operation type in the section Operation types and programmes.	120,000	90,000	60,000	45,000	30,000	45,000			

Other components, fully electric vehicles

		Operation type					
Compo- nent	Oil grade	0:0	0	1	2	3	4
nent		Distance driven in km or calendar time 1 year					
Electric machine: MG4115-1 Changing the oil and renewing the oil filter	STO EV	120,000	90,000	60,000	45,000	30,000	45,000



Time in idling mode with power take-off active

A precondition is that the vehicle has a very high proportion of its running time with active power take-off.

Some use of power take-offs is already included in the operation types, see the relevant description. In special cases it may be necessary to take into account the operating time with a power take-off active in addition to what is already included. An example of this would be vehicles which are stationary with a power take-off active during most of the operating time. The distance driven per year for the vehicles is below 1,000 km. Thus, the distance driven is short in relation to the vehicle's total operating time.

The conversion from hours to kilometres in the table below can be used to set an oil change interval.

Example: See the table in the section on oil change intervals for engines. In the following example, the engine type is DC13 141, operation type 3, oil grade Scania LDF-3 and the oil change interval 20,000 km for the vehicle.

The same vehicles are stationary and pump concrete. According to the conversion in the table below, 20,000 km corresponds to an oil change interval of 300 hours.

Distance driven	Operating time, power take-off
10,000 km	150 hours
20,000 km	300 hours
30,000 km	450 hours
40,000 km	600 hours
50,000 km	750 hours



Bränsle och smörjmedel

The recommended time or distance driven between each oil change applies where lubricants and fuels satisfy Scania requirements; see Workshop Manual main group 00.

Fuels, lubricants and fluids (00:16-15) contains, among other things, information on oil quality requirements.

Sulphur content in the fuel

Type of exhaust gas aftertreatment	pe of exhaust gas aftertreatment Emission class Max. sulphur content in fuel for unaffected oil change intervals ¹		Note
EGR and SCR	EGR and SCR Euro 6 10 ppm		More than 10 ppm is not permitted. A higher content causes engine damage.
			351-1,000 ppm gives the oil change interval ¹ divided by 1.5.
SCR	Euro 4 Euro 5	350 ppm (0.035%)	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.
			351-1,000 ppm gives the oil change interval ¹ divided by 1.5.
_	Euro 3	350 ppm (0.035%)	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 intervals according to the tables in the chapter Intervals for components and systems - Engine oil.



Biodiesel

Scania currently approves 2 types of biodiesel:

- FAME in accordance with EN 14214
- 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 prepared for biodiesel and driven on biodiesel must use fuel filters adapted for biodiesel.
- 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 engines

Exceptions

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

- · Emergency vehicles.
- Vehicles that have downtimes greater than 2 months.
- 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 EN 590 diesel to FAME EN 14214.
- Switching from FAME EN 14214 to diesel EN 590.



HVO EN 15940

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 the document 00:16-15, Fuel, lubricant and fluids, under the HVO section for the chassis serial numbers approved for HVO.

Switching between different fuels

Scania recommends renewing the fuel filter with each change of fuel type. For switching between various fuels, see 00:16-15, Fuel, lubricant and fluids under the relevant fuel type, the actions required in each case.



Intervaller för komponenter och system

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.

Fuel filter renewal follows the oil change interval unless otherwise specified in the tables. Also see the table Filter renewal intervals for other components.

The sulphur content effect on the intervals



IMPORTANT!

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



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 includes information on engine type, fuel and injection system.



Engine oil

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). The oil grade used for factory filling is valid for the current issue of the preface to Fuel, lubricants and fluids.

This preface (00:17-30) specifies which grades of engine oil are suitable for an engine. It is therefore not necessary to continue using the specific oil grade used during factory filling.



NOTE:

Engines approved for HVO 15940 are listed in the document Fuels, lubricants and fluids (00:16-15), section HVO EN 15940.

Euro 3, diesel



IMPORTANT!

When Scania LDF-4 engine oil is used, the sulphur content of the fuel must be no more than 10 ppm.

Engine	Oil grade	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4
type		Distar	nce driven in l	km or calenda	r time corres	ponding to 1.5	5 years
DC09 121	Scania LDF-4 Scania LDF-3	90,000	90,000	60,000	30,000	20,000	45,000
250	Scania HD	60,000	60,000	45,000	20,000	15,000	30,000
DC09 125 310	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	45,000	45,000	30,000	15,000	10,000	20,000
DC13 134 360	Scania LDF-4 Scania LDF-3	120,000	90,000	60,000	45,000	20,000	45,000
DC13 140	Scania HD	60,000	60,000	45,000	30,000	15,000	30,000
410 DC13 144 460	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	45,000	45,000	30,000	20,000	10,000	20,000



	Scania LDF-4 Scania LDF-3	120,000	90,000	60,000	45,000	20,000	45,000
DC16 111	Scania HD	60,000	60,000	45,000	30,000	15,000	30,000
560	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	45,000	45,000	30,000	20,000	10,000	20,000

Euro 4, diesel

IMPORTANT!

If Scania LDF-4 engine oil is used, the sulphur content of the fuel must be no more than 10 ppm.

Engine type	Oil grade	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4		
		Distance driven in km or calendar time corresponding to 1.5 years							
DC09 118 280	Scania LDF-4	90.000	90.000	60.000	30,000	20.000	45 000		
DC09 123 320	Scania LDF-3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	00,000	20,000	20,000	10,000		
DC09 131	Scania HD	60,000	60,000	45,000	20,000	15,000	30,000		
360 DC09 145 280	ACEA E4, E6, E7, E8, E9, E11								
DC09 146 320	API CI-4, CJ-4, CK-4	45,000	45,000	30,000	15,000	10,000	20,000		
DC09 147 360									
DC13 138 410	Scania LDF-4	120.000	90.000	60.000	45 000	20.000	45 000		
DC13 142 450	Scania LDF-3	120,000	90,000	00,000	45,000	20,000	45,000		
DC13 145	Scania HD	60,000	60,000	45,000	30,000	15,000	30,000		
500 DC13 150 380	ACEA E4, E6, E7, E8, E9, E11	45,000	45,000	30,000	20,000	10,000	20,000		
DC13 151 440	API CI-4, CJ-4, CK-4								



DC16 112	Scania LDF-4 Scania LDF-3	120,000	90,000	60,000	45,000	20,000	45,000
520	Scania HD	60,000	60,000	45,000	30,000	15,000	30,000
DC16 113 620	ACEA E4, E6, E7, E8, E9, E11 API CI-4, CJ-4, CK-4	45,000	45,000	30,000	20,000	10,000	20,000

Euro 5, diesel

IMPORTANT!

If Scania LDF-4 engine oil is used, the sulphur content of the fuel must be no more than 10 ppm.

Engine type	Oil grade	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4		
		Distance driven in km or calendar time corresponding to 1.5 years							
	Scania LDF-4	60.000	60.000	45,000	30.000	20.000	45.000		
DC07 108 220	Scania LDF-3)	,	,		_ • , • • •	+J,000		
DC07 109	Scania HD	45,000	45,000	30,000	20,000	15,000	30,000		
250 DC07 110 280	ACEA E4, E6, E7, E8, E9, E11	30,000	30,000	20,000	15,000	10,000	20,000		
	API CI-4, CJ-4, CK-4								
DC09 119 280	Scania LDF-4	90.000	90.000	60.000	30.000	20.000	45 000		
DC09 124 320	Scania LDF-3	90,000	90,000	00,000	20,000	20,000	нэ,000		
DC09 132	Scania HD	60,000	60,000	45,000	20,000	15,000	30,000		
360 DC09 142 280	ACEA E4, E6, E7, E8, E9, E11								
DC09 143 320	API CI-4, CJ-4, CK-4	45,000	45,000	30,000	15,000	10,000	20,000		
DC09 144 360									



DC13 139 410	Scania LDF-4	120,000	00.000	60.000	45.000	20.000	45.000
DC13 143 450	Scania LDF-3	120,000	90,000	00,000	45,000	20,000	45,000
DC13 146	Scania HD	60,000	60,000	45,000	30,000	15,000	30,000
500 DC13 152 380	ACEA E4, E6, E7, E8, E9, E11	45,000	45,000	30,000	20,000	10,000	20,000
DC13 153 440	API CI-4, CJ-4, CK-4						
	Scania LDF-4	120.000	90.000	60.000	45 000	20.000	45 000
	Scania LDF-3	120,000			45,000	20,000	45,000
DC13 172	Scania HD	60,000	60,000	45,000	30,000	15,000	30,000
540	ACEA E4, E6, E7, E8, E9, E11	45,000	45,000	30,000	20,000	10,000	20,000
	API CI-4, CJ-4, CK-4						
	Scania LDF-4	120.000	90.000	60.000	45.000	20.000	45.000
DC16 114	Scania LDF-3	120,000	90,000	00,000	45,000	20,000	45,000
520	Scania HD	60,000	60,000	45,000	30,000	15,000	30,000
DC16 115 620	ACEA E4, E6, E7, E8, E9, E11	45,000	45,000	30,000	20,000	10,000	20,000
	API CI-4, CJ-4, CK-4						

Euro 6, diesel



IMPORTANT!

When Scania LDF-4 or LDF-5 engine oil is used, the sulphur content of the fuel must be no more than 10 ppm.



Engine type	Oil grade	Opera- tion type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4			
		Distanc	Distance driven in km or calendar time corresponding to 1.5 years							
DC07 111 220	Scania LDF-4 Scania	60,000	60,000	45,000	30,000	20,000	45,000			
DC07 112 250	LDF-3									
DC07 112 230 DC07 113 280	ACEA E6, E8, E9, E11	30,000	30,000	20,000	15,000	10,000	20,000			
	API CJ-4, CK-4									
DC09 126 320	Scania									
DC09 127 360 DC09 130 280	Scania	90,000	90,000	60,000	30,000	20,000	45,000			
DC09 139 280	ACEA E6,									
DC09 140 320	E8, E9, E11	45,000	45,000	30,000	15,000	10,000	20,000			
DC09 141 360	API CJ-4, CK-4									
DC13 141 410	Scania									
DC13 148 450	Scania	120,000	90,000	60,000	45,000	20,000	45,000			
DC13 149 370	LDF-3									
DC13 155 500										
DC13 162 370	ACEA E6,									
DC13 163 410	E8, E9, E11	45,000	45,000	30,000	20,000	10,000	20,000			
DC13 165 500	CK-4									
DC13 166 540										
DC13 173 560 DC13 174 500	Scania LDF-5 Scania LDF-4	120,000	90,000	60,000	45,000	20,000	45,000			
DC13 175 460	ACEA E8,									
DC13 176 420	E11 API CK-4, FA-4	45,000	45,000	30,000	20,000	10,000	20,000			
DC16 105 520	Scania LDF-3	120,000	90,000	60,000	45,000	20,000	45,000			
DC16 106 580	ACEA E6, E8, E9, E11	45,000	45,000	30,000	20,000	10,000	20,000			
DC1010//30	API CJ-4, CK-4									



DC16 108 730 DC16 116 520 DC16 117 580	Scania LDF-4 Scania LDF-3	120,000	90,000	60,000	45,000	20,000	45,000
DC16 118 650							
DC16 120 530	ACEA E6, E8, E9, E11						
DC16 121 590	API CJ-4.	45,000	45,000	30,000	20,000	10,000	20,000
DC16 122 660	CK-4						
DC16 123 770							

Engines, operation with FAME EN 14214



IMPORTANT!

When Scania LDF-4 engine oil is used, the sulphur content of the fuel must be no more than 10 ppm.

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

Euro 3, operation with FAME biodiesel, XPI and PDE

Engine type Oil grade		Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4			
		Distar	Distance driven in km or calendar time corresponding to 1.5 years							
DC09 121 250	Scania LDF-4	30.000	30.000	30.000	20.000	15 000	30.000			
DC09 125 310	Scania LDF-3	50,000	50,000	50,000	20,000	15,000	50,000			
DC13 134 360	Scania LDF-4									
DC13 140 410	Scania LDF-3	30,000	30,000	30,000	20,000	15,000	30,000			
DC13 144 460										
DC16 111	Scania LDF-4	65 000 ¹	55 000 ¹	40 0001	30,000	15 000	30.000			
560	Scania LDF-3	03,000	55,000	-10,000	50,000	15,000	50,000			



Euro 4, operation with FAME biodiesel, XPI and PDE

IMPORTANT!

When Scania LDF-4 engine oil is used, the sulphur content of the fuel must be no more than 10 ppm.

Engine type	Oil grade	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4			
DC09 118 280		Distance driven in km or calendar time corresponding to 1.5 years								
DC09 123 320										
DC09 131 360	Scania									
DC09 145 280	LDF-4 Scania LDF-3	55,0001	55,0001	40,0001	20,000	15,000	30,000			
DC09 146 320										
DC09 147 360										
DC13 138 410	Scania									
DC13 142 450	LDF-4 Scania	65,000 ¹	55,000 ¹	40,0001	30,000	15,000	30,000			
DC13 145 500	LDF-3									
DC13 150 380	Scania LDF-4	30.000	30.000	30.000	30.000	15 000	30,000			
DC13 151 440	Scania LDF-3	50,000	50,000	50,000	30,000	15,000	50,000			
DC16 112 520	Scania LDF-4	65 0001	55 0001	40,0001	30.000	15 000	30.000			
DC16 113 620	Scania LDF-3	03,000	55,000	-10,000	50,000	15,000	50,000			



Euro 5, operation with FAME biodiesel, XPI and PDE

IMPORTANT!

When Scania LDF-4 engine oil is used, the sulphur content of the fuel must be no more than 10 ppm.

Engine type	Oil grade	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4	
		Distan	Distance driven in km or calendar time corresponding to					
DC07 109 250	Scania LDF-4	45 0001	45 0001	30.000	20.000	15 000	30,000	
DC07 110 280	Scania LDF-3	43,000	43,000	50,000	20,000	15,000	50,000	
DC09 119 280								
DC09 124 320								
DC09 132 360	Scania LDF-4	55,0001	55 0001	40,0001	20.000	15.000	20.000	
DC09 142 280	Scania LDF-3	55,0001	55,000 ¹	40,000 ¹	20,000	15,000	50,000	
DC09 143 320								
DC09 144 360								
DC13 139 410								
DC13 143 450	Scania LDF-4	65 0001	55 0001	40,0001	30,000	15,000	30,000	
DC13 146 500	Scania LDF-3	03,000	55,000	40,000				
DC13 172 540								
DC13 152 380	Scania LDF-4	30.000	30.000	30.000	30.000	15 000	30,000	
DC13 153 440	Scania LDF-3	50,000	50,000	50,000	50,000	15,000	50,000	
DC16 114 520	Scania LDF-4	65 0001	55 0001	40 0001	30.000	15 000	30,000	
DC16 115 620	Scania LDF-3	05,000	55,000	10,000	50,000	15,000	50,000	



Euro 6, XPI, approved for FAME biodiesel

IMPORTANT! ļ

When Scania LDF-4 or LDF-5 engine oil is used, the sulphur content of the fuel must be no more than 10 ppm.

XPI engines approved for biodiesel, run on biodiesel.

IMPORTANT!

Only applies to the engine types indicated in the table.

Engine type	Oil grade	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4
	Distan	ce driven in k	m or calenda	r time corresp	oonding to 1.5	years	I
DC07 112 250	Scania LDF-4	45 000 ¹	45 000 ¹	30.000	20.000	15 000	30.000
DC07 113 280	Scania LDF-3	10,000	12,000	50,000	20,000	15,000	50,000
DC09 126 320							
DC09 127 360	Scania LDF-4	55 0001	55 0001	40,0001	20.000	15 000	20.000
DC09 140 320	Scania LDF-3	33,000	55,000 ¹	40,000*	20,000	15,000	50,000
DC09 141 360							
DC13 141 410							
DC13 148 450	Scania LDF-4	65 0001	55 0001	40,0001	20.000	15 000	20.000
DC13 163 410	Scania LDF-3	05,000	55,000	40,000	30,000	15,000	50,000
DC13 164 450							
DC13 174 500	Scania LDF-5	120,0001	90,000 ¹	60,0001	45,000 ¹	20,000	45,000 ¹
DC13 175 460	Scania LDF-4	60,000 ¹	60,000 ¹	45,0001	30,000	15,000	30,000
DC16 117 580	Scania LDF-4	65 0001	55 0001	40,0001	30.000	15 000	30.000
DC16 121 590	Scania LDF-3	05,000*	55,000*	40,000*	50,000	13,000	50,000



Ethanol engines

Euro 6, ethanol

Engine type	Oil grade	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4		
type		Distance driven in km or calendar time corresponding to 1 years							
DC13 157	Scania BEO-2	45,000	45,000	45,000	10,000	10,000	45,000		

Gas engines

Operation types and associated interval for oil changes

Engine type	Oil grade	Operation type 0:0 and 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4			
		Distance driven in km, running time in hours or calendar time. ¹							
		45,000	30,000	20,000	20,000	30,000			
0,000,104,200	Scania LDF-4	900 h							
0C09 104 280		1 year							
OC09 105 340	ACEA E6,	30,000	20,000	15,000	10,000	20,000			
OC13 101 410	E8, E9, E11	450 h							
	API CJ-4, CK-4			1 year					

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



Transmission

Oil change intervals

Component	Oil grade	Operation type 0:0	Operation type 0	Opera- tion type 1	Opera- tion type 2	Opera- tion type 3	Opera- tion type 4
		Distanc	e driven in k	m, running 1	time in hour	s or calenda	r time ¹
Manual gearbox:	STO 1:1 G	240,000 or 3 years	240,000 or 3 years	240,000 or 3 years	120,000	80,000 or	120,000
905/925/926/935	STO 2:0 G	360,000 or 3 years	360,000 or 3 years	360,000 or 3 years	or 3 years	3 years	or 3 years
Manual gearbox: G25CM/R G33CM/R	STO MTF	1,000,000 or 5 years	1,000,000 or 5 years	800,000 or 5 years	400,000 or 5 years	300,000 or 5 years	400,000 or 5 years
Gearbox GE281	STO EV	1,000,000 or 4 years	1,000,000 or 4 years	800,000 or 4 years	400,000 or 4 years	300,000 or 4 years	400,000 or 4 years
Automatic geathox ²	ATF TES 389	20,000 or 6 months	20,000 or 6 months	20,000 or 6 months	20,000 or 6 months	20,000 or 6 months	20,000 or 6 months
Automatic gearoox-	ATF TES 295	120,000 or 3 years	120,000 or 3 years	120,000 or 3 years	120,000 or 3 years	120,000 or 3 years	120,000 or 3 years
Transfer gearbox	ZF TE-ML 19	-	-	-	60,000 or 1 year	20,000 or 1 year	20,000 or 1 year
Central gear R756	STO 1:0	240,000 or 3 years	240,000 or 3 years	240,000 or 3 years	120,000 or 3 years	80,000 or 3 years	120,000 or 3 years
Central gear RB756	STO 2:0 A	750,000 or 3 years	750,000 or 3 years	600,000 or 3 years	400,000 or 3 years	300,000 or 3 years	400,000 or 3 years
Hub reduction gear,	STO 1:0			45,000 or	30,000 or	20,000 or	30,000 or
RH731	STO 2:0 A		-	3 years	3 years	3 years	3 years
Clutch unit: EK750F	ATF oil			500 hours of	r 3 months		
Venting filter renewal for central gear R756			During maint	enance event	ts M and L		
Central gears with filter with or without	STO 1:0	240,000 or 3 years	240,000 or 3 years	240,000 or 3 years			
hub reduction gear: R560/660/665/753/ 780/885, RB662/ 885, RBP/RP735/ 835/900	STO 2:0 A	360,000 or 3 years	360,000 or 3 years	360,000 or 3 years	120,000 or 3 years	80,000 or 3 years	120,000 or 3 years
Central gears	STO 1:0						
without filter, with or without hub reduction gear ³ : R560/660/665/ 753/ 780/885, RB662/ 885, RBP/RP735/ 835/900	STO 2:0 A	120,000 or 3 years	120,000 or 3 years	120,000 or 3 years	60,000 or 3 years	40,000 or 3 years	60,000 or 3 years



1. Perform maintenance at the interval reached first.2. If the gearbox has been filled with oil grade TES 389, then 2 oil changes with TES 295 must be made before the extended interval can be applied. For more information about oil change intervals, visit www.allisontransmission.com.3. NB! For some bodywork there is no room for the rear axle housing filter. In these cases the filter can be replaced with a steel plate, well sealed on the rear axle housing with silicone.

Oil change intervals, Retarder type 2

Compo- nent	Compo- nent Oil grade		Operation type 0	Operation type 1	Opera- tion type 2	Opera- tion type 3	Operation type 4			
			Distance driven in km or calendar time							
Retarder type 2, R3500, R4100, P4100D	Engine oil 10W- 30 or 15W-40 that complies with ACEA E7	240,000 or 3 years	240,000 or 3 years	240,000 or 3 years	60,000 or 3 years	80,000 or 3 years	60,000 or 3 years			
	Engine oil 10W- 30 or 10W-40 that complies with Allison C4									
R4700D	STO Retarder or ATF oil that complies with Allison C4 or Dexron III	360,000 or 3 years	360,000 or 3 years	360,000 or 3 years	120,000 or 3 years	80,000 or 3 years	120,000 or 3 years			

Changing clutch fluid

Component	Operation	Operation	Operation	Operation	Operation	Operation			
	type 0:0	type 0	type 1	type 2	type 3	type 4			
	Distance driven in km or calendar time								
Clutch fluid ¹	480,000 or	480,000 or	480,000 or 2	240,000 or	160,000 or	240,000 or 2			
	2 years	2 years	years	2 years	2 years	years			

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



Other components, diesel and HVO operation

Renewing the filter, diesel and HVO operation

i NOTE:

HVO EN 15940 is approved for certain engines. For more information, see document 00:16-15 "Fuel, lubricants and fluids", section HVO EN 15940.

Component	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4
		Dis	tance driven in	km or calendar	time	
Fuel filter – diesel Applies to engines approved for diesel (EN 590) and HVO (EN 15940).	Sam	e interval as the	e engine oil chan	ge interval, but a	maximum of 1 y	/ear.
Filters for fuel tank ventilation			2 years o	or every L		

Maintaining the centrifugal oil cleaner, diesel and HVO operation

Engine type	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4					
Euro 6											
DC09											
DC13 six rocker covers		At every other oil change, i.e. at M and L maintenance events									
DC16											
With lower emission class than corresponding to Euro 6 in the event of diesel operation.		At every oil change, i.e. at each S, M and L maintenance event.									



Change intervals for particulate filter, diesel and HVO operation

i 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.

All maintenance forms (S, M and L) include the check point that the particulate filter should be renewed.

Engine type	Oil grade	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4		
		Distance driven in km							
DC07 111 220 DC07 112 250 DC07 113	Scania LDF- 4 ACEA E6, E8, E9, E11 API CJ-4, CK-4	490,000	420,000	325,000	245,000	145,000	270,000		
280	Scania LDF- 3	255,000	220,000	170,000	130,000	77,000	135,000		
DC09 DC13 – Six rocker covers: DC13: 141	Scania LDF- 4 ACEA E6, E8, E9, E11 API CJ-4, CK 4	670,000	575,000	450,000	335,000	200,000	360,000		
DC13: 148 DC13: 163 DC13: 164	Scania LDF-	355,000	305,000	240,000	180,000	105,000	180,000		
1 rocker cover DC13 173 560 DC13 174 500 DC13 175 460 DC13 176 420	Scania LDF- 5 Scania LDF- 4 ACEA E8, E11 API CK-4, FA-4	1,150,000	990,000	770,000	580,000	350,000	690,000		
DC16 105 520 DC16 106 580	ACEA E6, E8, E9, E11 API CJ-4, CK-4	980,000	840,000	650,000	490,000	295,000	450,000		
DC16 107 730	Scania LDF- 3	515,000	440,000	345,000	260,000	155,000	225,000		



DC16 108 730 DC16 116	Scania LDF- 4 ACEA E6,	080.000	840.000	650.000	400.000	205.000	450.000
520	E8, E9, E11	980,000	840,000	630,000	490,000	295,000	430,000
DC16 117 580	API CJ-4, CK-4						
DC16 118 650							
DC16 120 530							
DC16 121 590	Scania LDF- 3	515,000	440,000	345,000	260,000	155,000	225,000
DC16 122 660							
DC16 123 770							

Renewing the reductant filter in the SCR system

Engine type	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4			
	Distance driven in km or calendar time								
Euro 6 DC13 – 1 rocker cover	240,000 or 5 years	180,000 or 5 years	120,000 or 5 years	90,000 or 5 years	40,000 or 5 years	90,000 or 5 years			
Euro 5/Euro 6 DC07 DC09 DC13 – 6 rocker covers DC16	480,000 or 5 years	440,000 or 5 years	300,000 or 5 years	200,000 or 5 years	140,000 or 5 years	220,000 or 5 years			



Other components, biodiesel, operation with FAME EN 14214

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

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

Renewing the filter, operation with FAME EN 14214

i 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 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4				
		Distance driven in km or calendar time								
Fuel filter – biodiesel Engines approved for biodiesel operation (EN 14214) ¹ .	30,000 or 1 year	30,000 or 1 year	30,000 or 1 year	30,000 or 1 year	20,000 or 1 year	30,000 or 1 year				

1. More than 7% mixture FAME EN 14214.

Renewing the oxidation catalytic converter

Component	Operation	Operation	Operation	Operation	Operation	Operation
	type 0:0	type 0	type 1	type 2	type 3	type 4
Oxidation catalytic converter			250,0	00 km		



Renewing the particulate filter

i 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) include the check point that the particulate filter should be renewed.

Engine	Oil grade	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4		
type	_		Distance driven in km						
DC07 112 250									
DC07 113 280									
DC09 127 360									
DC09 140 320	Scania								
DC09 141 360	LDF-4 ACEA E6,								
DC13 – 6 rocker	E8, E9, E11	365,000	315,000	245,000	180,000	110,000	185,000		
covers	API CJ-4,								
DC13 141 410	CK-4								
DC13 148 450									
DC13 163 410									
DC13 164 450									
DC13 – 1 rocker	Scania LDF-5								
cover	Scania LDF-4	480.000	410.000	320.000	240.000	140.000	200.000		
500	ACEA E8, E11	400,000	410,000	320,000	240,000	140,000	290,000		
DC13 175 460	API CK-4, FA-4								



DC16 117 580 DC16 121 590	Scania LDF-4 ACEA E6, E8, E9, E11 API CJ-4,	535,000	455,000	355,000	265,000	160,000	230,000
0,70	CK-4						
	Scania LDF-3	357,000	306,000	238,000	179,000	107,000	155,000



Other engine and fuel components, ethanol

This section describes the intervals for the following components:

- Renewing the fuel filter, fuel tank ventilation filter and reductant filter
- Centrifugal oil cleaner maintenance
- Unit injector renewal
- Renewing the particulate filter (Euro 6, XPI).

Renewal of filter, ethanol operation

Component	Operation	Operation	Operation	Operation	Operation	Operation			
	type 0:0	type 0	type 1	type 2	type 3	type 4			
Fuel filter	Same as engine oil change interval								
Filters for fuel tank ventilation	2 years or every L								
Reductant	480,000 km	440,000 km	300,000 km	200,000 km	140,000 km	220,000 km			
filter	or 5 years	or 5 years	or 5 years	or 5 years	or 5 years	or 5 years			

Centrifugal oil cleaner maintenance, ethanol operation

Component	Operation	Operation	Operation	Operation	Operation	Operation			
	type 0:0	type 0	type 1	type 2	type 3	type 4			
Centrifugal oil cleaner		At every oil change, i.e. at each maintenance event. S, M and L.							

Renewal of unit injector, ethanol operation

Component	Operation	Operation	Operation	Operation	Operation	Operation		
	type 0:0	type 0	type 1	type 2	type 3	type 4		
Unit injector	90,000 km							

Particulate filter renewal, ethanol operation



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.

Oil grade	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4
Distance driven in km						
Scania BEO- 2	410,000	350,000	275,000	205,000	125,000	350,000



Other engine and fuel components, gas

Gas operation, Euro 6



NOTE:

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

Renewing spark plugs

Engine type	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4		
	Distance driven in km							
OC09 104 280								
OC09 105 340	90,000	90,000	60,000	40,000	40,000	60,000		
OC13 101 410								

Maintenance, other components

Component	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4
		Dist	ance driven in l	km or calendar	time	
Low-pressure gas filter renewal	45,000	45,000	30,000	20,000	20,000	30,000
Checking gas tanks	l year	1 year	1 year	1 year	1 year	1 year
Checking the tank strap tension ¹	1 year	1 year	1 year	1 year	1 year	1 year
Renewing relief valves on gas tanks, LNG	5 years	5 years	5 years	5 years	5 years	5 years

1. Only applies to CNG steel tanks.



Hybrid and fully electric vehicles

Intervals for periodic maintenance

HEV/	PHEV	Operation type 0:0Operation type 0Operation type 1Operation type 2Operation type 2			Operation type 3	Operation type 4	
Compo- nent	Oil grade	Distance driven in km or calendar time 3 years ¹					
Electric machine MG4107-1							
Changing the oil and renewing the oil filter	STO EV	150,000	150,000	120,000	90,000	60,000	90,000
HEV/PHE	V and BEV						
Compo- nent	Oil grade						
Electrical air compres- sor Change oil, renew air filter and oil separation filter	Castrol Alphasyn T46 or Chevron Cetus PAO46			Calendar	time 1 year		
HEV/PHEV							
Comp	oonent	Distance driven in km or calendar time 2 years ¹					
Renewing	drive belts ²			240	,000		

1. Maintenance at the interval reached first.

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



Engine air filter

Vehicles with front air intake (FAI)

Component		Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4	
		Distance driven in km or calendar time						
	Moderate level of dust	360,000 or 2 years	360,000 or 2 years	360,000 or 2 years	240,000 or 2 years	240,000 or 2 years	240,000 or 2 years	
Air filter cartridge ¹	High level of dust	240,000 or 2 years	240,000 or 2 years	240,000 or 2 years	120,000 or 2 years	120,000 or 2 years	120,000 or 2 years	
	Extremely high level of dust	60,000 or 2 years	60,000 or 2 years	60,000 or 2 years	60,000 or 2 years	60,000 or 2 years	60,000 or 2 years	

1. Renew the safety cartridge every time you renew the air filter cartridge. Use the air filter indicator to determine whether the air filter cartridge requires renewal.

Vehicles with high air intake (HAI)

Component		Operation type 0:0	Operation type 0:0Operation type 0Operation type 1			Operation type 3	Operation type 4		
		Distance driven in km or calendar time							
	Moderate level of dust	50	500,000 or 2 years			250,000 or 2 years			
Air filter cartridge ¹	High level of dust	34	40,000 or 2 yea	ars	170,000 or 2 years				
	Extremely high level of dust	10	00,000 or 2 yes	ars 100,000 or 2 years			ars		

1. Renew the safety cartridge every time you renew the air filter cartridge. Use the air filter indicator to determine whether the air filter cartridge requires renewal.

Vehicles with high air intake (HAI) high-capacity air filter

Component		Operation type 0:0	Operation type 0:0Operation type 0Operation type 1			Operation type 3	Operation type 4		
		Distance driven in km or calendar time							
	Moderate level of dust	50	500,000 or 2 years			250,000 or 2 years			
Air filter cartridge ¹	High level of dust	4(00,000 or 2 yes	ars	200,000 or 2 years				
	Extremely high level of dust	15	50,000 or 2 ye	ars	150,000 or 2 years				

1. Renew the safety cartridge every time you renew the air filter cartridge. Use the air filter indicator to determine whether the air filter cartridge requires renewal.



Coolant

Renewal intervals

Component	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4			
	Distance driven in km or calendar time								
Coolant	600,000 or 4 years								



Cab

Intervals, components

Component	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4				
		Distance driven in km or calendar time								
Fresh air filter	During maintenance events M and L									
A/C air filter on the crew cab										



Brake

Intervals, brake system

Component	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4
	Calendar time					
Brake system, check ¹			1 y	/ear		

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

Change intervals, components

Component	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4
	Distance driven in km or calendar time					
Air dryer: Desiccant container	360,000 or 2 years	360,000 or 2 years	240,000 or 2 years	180,000 or 2 years	120,000 or 2 years	180,000 or 2 years



Chassis

Change intervals, components

Component	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4
			Calend	lar time		
Wet kit, with 200 litre volume hydraulic tank.			1 y	year		
Oil and filter change						



Scania bodywork

Hydraulic equipment – Bodywork

Component	Oil change	Number of operating hours per year		Number of pressure releases per work shift	
		Up to 1,500	More than 1,500	Up to 15	More than 15
Tipper truck 12 m ² and wet kit	3 years	X		X	
	1 year		X		X
Rolling floor and cranes	2 years	X		X	
	1 year		X		X



Tail lift, Zepro

For more information on maintenance event "XL" and what should be checked and renewed, see "Scania Vehicle Related Services", website: https://vrs. scania.com/.



Förebyggande byten

Performing preventive renewals serves to reduce the risk of unplanned downtime for the vehicle. 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.

Belt transmission

Statistics from repair and maintenance contracts indicate that overall it is relatively unlikely that the belt transmission will fail. However, the statistics do not differentiate between different operating conditions and vehicle specifications. As the consequential damages from a ruptured belt are extremely serious, there is good reason to perform preventive renewal as specified in the table below.

Component	Operation type 0:0	Operation type 0	Operation type 1	Operation type 2	Operation type 3	Operation type 4
	Distance driven in km or calendar time					
Belt transmis- sion ¹ , XPI engines and gas engines.			240,000	or 2 years		

1. Idler rollers, drive belt and belt tensioner are part of the belt transmission.



Batteries

Statistics from repair and maintenance contracts show that overall there is a high likelihood of a battery fault occurring. However, the statistics do not differentiate between different operating conditions and vehicle specifications. The majority of contract vehicles that are 5 years old have undergone battery renewal before the end of the contract period. Most battery renewal occurs between years 3 and 5. As an individual component, batteries are the most common cause of emergency calls for Scania Assistance.

Preventive renewal of batteries is not a guarantee that there will not be unplanned stops due to lack of battery capacity. It is important for the customer and workshop to perform battery maintenance, e.g. trickle charging, and to monitor how current consumers are used while the vehicle is stationary.

The table below provides a recommendation of when a preventive renewal may be suitable based on battery type and expected vehicle usage.

Electric power	Ambient temperature					
consumption	Cold, never hot	Varied	Hot, never cold			
Low ¹	3 years	3 years	4 years			
	Battery type: 180 Ah	Battery type: 140 Ah	Battery type: 140 Ah			
Medium ^{1, 2}	3 years	3 years	3 years			
	Battery type: 225 Ah	Battery type: 180 Ah	Battery type: 180 Ah			
High ₂	2 years	3 years	2 years			
	Battery type: 225 Ah	Battery type: 225 Ah	Battery type: 225 Ah			

1. No overnight stays: For example, parking lights, internal lighting, radio, cab ventilation, etc.

2. Many overnight stops 3-5/week: For example, auxiliary heating, auxiliary radiator, kitchen equipment, PC, TV, DVD player, sound system with amplifier, etc.Distribution vehicles: The tail lift is used frequently.

NOTE:

1

The above table is a technical estimation that does not take the length of the vehicle contract or ownership period into consideration. If a preventive renewal is to be carried out, it is always best to schedule the renewal halfway through the ownership period.

This minimises the likelihood of unplanned downtime.