

PREVENTATIVE MAINTENANCE GUIDE

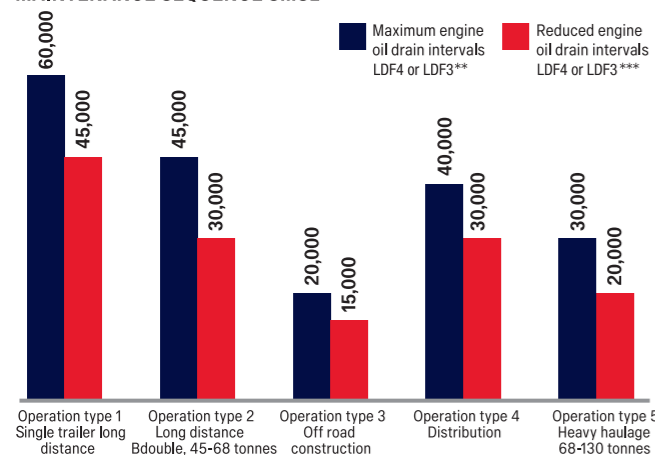
P-G-R-T / P-G-R-S TRUCK



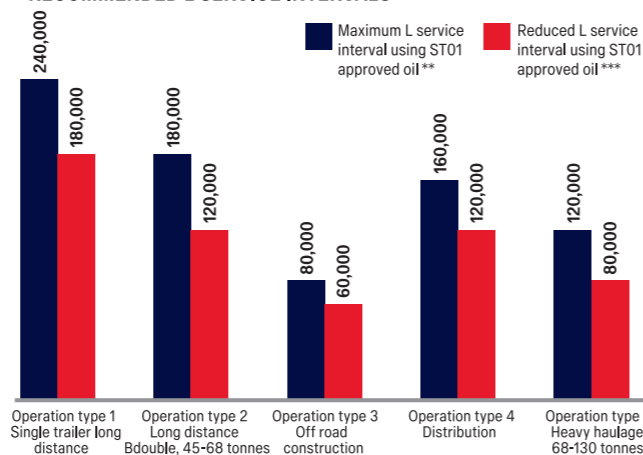
OPERATION TYPE AND DESCRIPTION
Operation Type 1 - Long distance transport
Typical Single Trailer long distance operation <45 tonnes
Idling and power take-off operation is less than 25% of the total operating time
Average speed is typically over 60 km/h
Operation Type 2 - Heavy long distance transport up to 68 tonnes
Typical Bdouble long distance operation 45-68 tonnes
Like operation type 1, but with higher load on powertrain and chassis due to the higher gross weight or hilly topography
Operation Type 3 - (Off-road) Construction operations
There are high or extremely high levels of the climate factors dust, dirt AND
Total idling and power take-off operation is more than 25% of the total operating time
Operation Type - 4 Distribution
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
Average speed is typically below 40 km/h
Operation Type 5 - Heavy long distance 68-130 tonnes
Heavy operations long distance between 68-130 tonnes
Like operation type 2, but with higher load on powertrain and chassis due to the higher gross laden weight

PLEASE NOTE: Operation types are given as general applications. A regular analysis of the vehicles stored operational data will give an accurate determination of the vehicles application and service intervals.

ENGINE OIL DRAIN INTERVAL FOR RECOMMENDED MAINTENANCE SEQUENCE SMSL



RECOMMENDED L SERVICE INTERVALS



** maximum engine oil drain intervals when loaded less than 60% of the time

*** maximum engine oil drain interval when loaded more than 60% of the time
730hp engines must run reduced oil drain interval in all application using LDF4 or LDF3 oil only.

Oil drain interval recommendations are to suit Euro 4, 5 & 6 diesel engines.

Please contact Scania Australia for more information.
(May Not Be Valid for all Scania Engine Types)

** maximum L service interval when loaded less than 60% of the time

*** maximum L service interval when loaded more than 60% of the time
Oil drains must be halved if gear oil is not ST01 approved.
Oil drain must be carried out at least once every 2 years if stated km for application type are not met.

For Automatic gearbox oil drain intervals follow instructions in the latest issue Workshop Manual 00:16-01

This document is a guide only and any recommendations are general for the listed applications. The estimated life of components is based on data collated from vehicles operating in Australian conditions. The driving style, travel route, vehicle weight and quality of maintenance will affect the estimated service life of each component. The estimated service life of components does not imply any warranty or costs to be accepted by Scania Australia, if the service life is not achieved.

RECOMMENDED PREVENTATIVE MAINTENANCE ALL P-G-R/L-P-G-R-S TRUCK

Area	Component	Action	Recommendation
Engine (V8 only)	Oil Cooler	Replace O rings and seals	480,000km, (7200 hrs)
Cooling system	Idler pulleys, belt & tensioners HPI/PDE engines	Replace	480,000km, (7200 hrs) or 2 years*
Cooling system	Idler pulleys, belts & tensioners XPI engines	Replace	240,000km, (3600hrs) or 2 years*
Cooling system	Water pump	Replace	600,000km, (9000hrs) or 4 years
Cooling system	Coolant	Replace	600,000km, (9000hrs) or 4 years
Cooling system	Radiator & Intercooler	External clean	Annually
Scania Gearbox	Shift / OPC cylinders	Replace O rings	750,000km, (11250hrs)
Hubs and Wheels	Drive/Tag axle wheel bearings	Clean and re-pack	600,000km (9000hrs)
Electrical	Batteries	Replace	2 years
Cab	Air Conditioning	Service	2 Years

RECOMMENDED PREVENTATIVE MAINTENANCE SCHEDULE OPERATION TYPE 1 - LONG DISTANCE TRANSPORT

Area	Component	Action	Recommendation
Engine	Turbocharger(excluding VGT)	Replace	750,000km, (11250hrs)
Fuel & exhaust	Unit Injectors (PDE)	Service or replace	750,000km, (11250hrs)
Prop / Tail shaft	Universal joints	Replace	800,000km, (12000hrs)*
Brakes	Compressor	Replace	800,000km, (12000hrs)
Electrical	Starter motor	Replace	1,000,000km or 4 years

RECOMMENDED PREVENTATIVE MAINTENANCE SCHEDULE OPERATION TYPE - 2 HEAVY LONG DISTANCE TRANSPORT UP TO 68 TONNES

Area	Component	Action	Recommendation
Engine	Turbocharger(excluding VGT)	Replace	600,000km, (9000hrs)
Fuel & exhaust	Unit Injectors (PDE)	Service or replace	600,000km, (9000hrs)
Prop / Tail shaft	Universal joints	Replace	750,000km, (11250hrs)*
Brakes	Compressor	Replace	800,000km, (12000hrs)
Electrical	Starter motor	Replace	1,000,000km or 4 years

RECOMMENDED PREVENTATIVE MAINTENANCE SCHEDULE OPERATION TYPE- 3 (OFF-ROAD) CONSTRUCTION OPERATIONS, OPERATION TYPE 4 - DISTRIBUTION AND OPERATION TYPE 5 - HEAVY LONG DISTANCE 68-130 TONNES

Area	Component	Action	Recommendation
Engine	Turbocharger(excluding VGT),	Replace	500,000km, (7500hrs)
Fuel & exhaust	Unit Injectors (PDE)	Service or replace	500,000km, (7500hrs)
Prop / Tail shaft	Universal joints	Replace	500,000km, (7500hrs)*
Brakes	Compressor	Replace	700,000km, (10500hrs)
Electrical	Starter motor	Replace	4 years reduce to 3 years with Increased Duty Cycle

* The condition of individual items should be assessed as part of a routine service program

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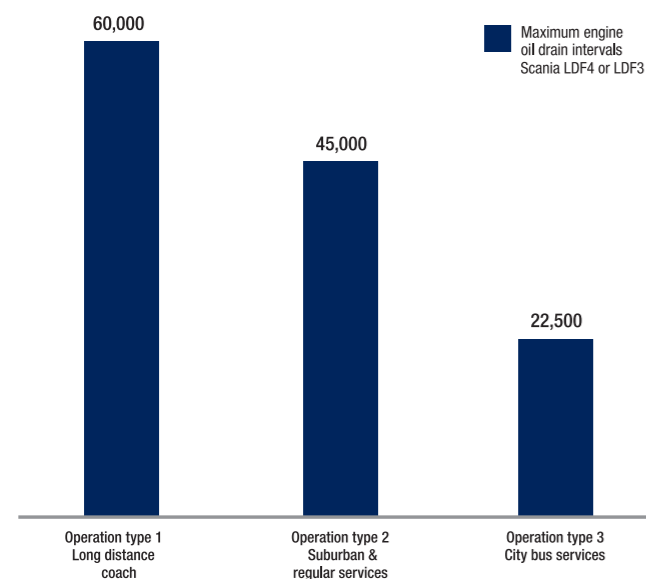
K-N BUS



OPERATION TYPE AND DESCRIPTION
Operation Type 1 - Long Services
Long distance services. For example a coach operating between major cities with fewer than 20 stops per 100km
Idle operation is less than 25% of total operating time
Operation Type 2 - Suburban & Regular Services
Regular services between cities or towns including shorter chartered services with 20-50 stops or major deceleration per 100km
Operation Type 3 - City Bus Services
Regular city services with more than 50 stops or major deceleration per 100km

PLEASE NOTE: Operation types are given as general applications. A regular analysis of the vehicles stored operational data will give an accurate determination of the vehicles application and service intervals

ENGINE OIL DRAIN INTERVALS FOR RECOMMENDED MAINTENANCE SEQUENCE SMSL

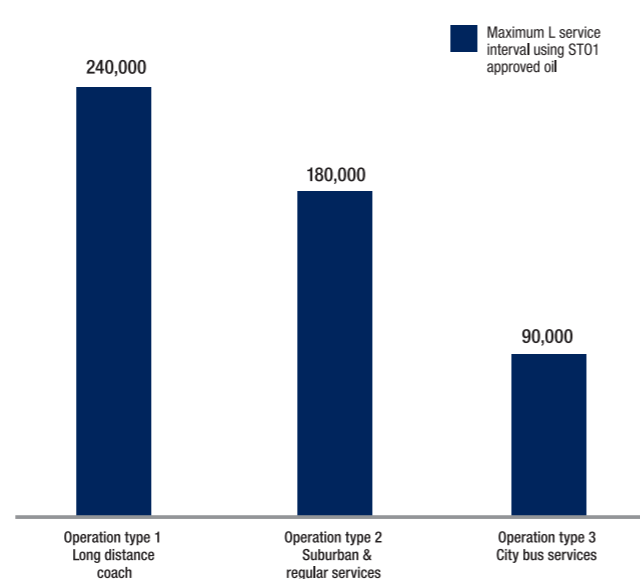


Engine oil drain intervals are considered as maximum for LDF4 or LDF3 engine oil. Intervals are suitable for Euro 4, 5 & 6 diesel engines.

Engine oil drain must be carried out at least once per year if stated km for application are not met.

Please contact Scania Australia for more information. (May Not Be Valid for all Scania Engine Types)

RECOMMENDED L SERVICE INTERVAL



Oil drains must be halved if gear oil is not ST01 approved.

Oil drain must be carried out at least once every 2 years if stated km for application type are not met.

For Automatic gearbox oil drain intervals follow instruction in the latest issue Workshop Manual 00:21-50

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RECOMMENDED PREVENTATIVE MAINTENANCE ALL K-N BUS

Area	Component	Action	Recommendation
Cooling system	Water pump	Replace	600,000km or 4 years
Cooling system	Coolant	Replace	600,000km or 4 years
Cooling system	Radiator & Intercooler	External clean	Annually
Scania Gearbox	Shift / OPC cylinders	Replace O rings	750,000km
Hubs and Wheels	Drive/Tag axle wheel bearings	Clean and re-pack	600,000km

RECOMMENDED PREVENTATIVE MAINTENANCE SCHEDULE OPERATION TYPE 1 - LONG DISTANCE SERVICES

Area	Component	Action	Recommendation
Engine	Turbocharger(excluding VGT)	Replace	900,000km
Cooling system	Idler pulleys, belts & tensioners	Replace	360,000km or 2 years*
Fuel & exhaust	Unit Injectors (PDE)	Service or Replace	600,000km
Prop / Tail shaft	Universal joints	Replace	750,000km*
Brakes	Compressor	Replace	700,000km
Electrical	Starter motor	Replace	600,000km

RECOMMENDED PREVENTATIVE MAINTENANCE SCHEDULE OPERATION TYPE 2 - SUBURBAN & REGULAR SERVICES

Area	Component	Action	Recommendation
Engine	Turbocharger(excluding VGT)	Replace	400,000km
Cooling system	Idler pulleys, belts & tensioners	Replace	180,000km or 2 years*
Fuel & exhaust	Unit Injectors (PDE)	Service or Replace	400,000km
Prop / Tail shaft	Universal joints	Replace	500,000km*
Brakes	Compressor	Replace	400,000km
Electrical	Starter motor	Replace	4 years

RECOMMENDED PREVENTATIVE MAINTENANCE SCHEDULE OPERATION TYPE 3 - CITY BUS SERVICES

Area	Component	Action	Recommendation
Engine	Turbocharger(excluding VGT)	Replace	300,000km
Cooling system	Idler pulleys, belts & tensioners	Replace	180,000km or 2 years*
Fuel & exhaust	Unit Injectors (PDE)	Service or Replace	400,000km
Prop / Tail shaft	Universal joints	Replace	500,000km*
Brakes	Compressor	Replace	360,000km
Electrical	Starter motor	Replace	4 years
Body	Rubber bush for articulation attachment in articulated bus	Replace	400,000km
Body	Bush securing articulation bellows in frame	Replace	400,000km

* The condition of individual items should be assessed as part of a routine service program