

# PREVENTATIVE MAINTENANCE GUIDE

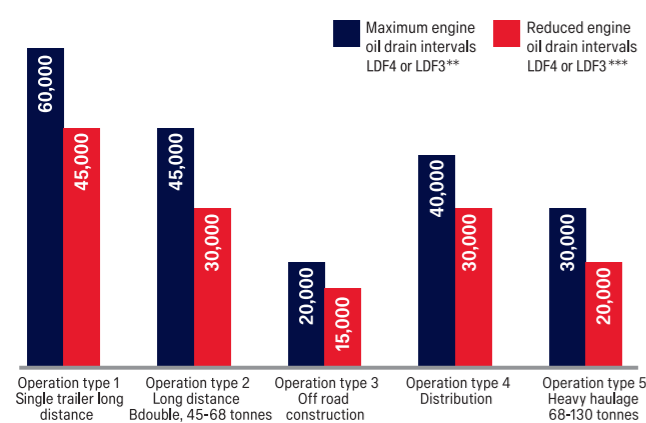
## P-G-R-T / L-P-G-R-S TRUCK



OPERATION TYPE AND DESCRIPTION
<b>Operation Type 1 - Long distance transport</b>
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
<b>Operation Type 2 - Heavy long distance transport up to 68 tonnes</b>
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
<b>Operation Type 3 - (Off-road) Construction operations</b>
There are high or extremely high levels of the climate factors dust, dirt <b>AND</b>
Total idling and power take-off operation is more than 25% of the total operating time
<b>Operation Type - 4 Distribution</b>
Total idling and power take-off operation is more than 25% of the total operating time <b>OR</b>
Traffic is extremely heavy, i.e. more than 250 stops or major decelerations per 100 km
Average speed is typically below 40 km/h
<b>Operation Type 5 - Heavy long distance 68-130 tonnes</b>
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**



\*\* maximum engine oil drain intervals when loaded less than 60% of the time. For V8 engines only use LDF3 or Low Ash.  
 \*\*\* maximum engine oil drain interval when loaded more than 60% of the time. For V8 engines only use LDF3 or Low Ash.

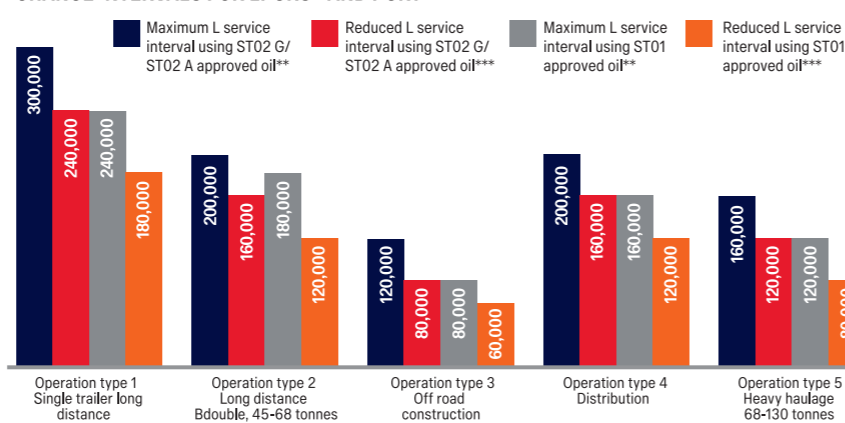
730hp engines must run reduced oil drain intervals in all application using LDF3 or low ash oil only.

Oil drain interval recommendations are to suit Euro 4, 5 & 6 diesel engines. For Euro 6 16L engines subject to light loading and high idle time it is recommended to use only Low Ash oil.

For Euro 6 13L or 9L engines subject to light loading and high idle time it is recommended to use only LDF4 oil.

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

**RECOMMENDED AXLE AND GEARBOX OIL CHANGE INTERVALS FOR LPGRS^ AND PGRT**



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

^ Scania recommend only ST02 oils in LPGRS.

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.

Oil change intervals only apply to drive axles with filters.

Only ST02 A and ST0 G should be used for NTG Axles and Gearboxes.

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

# PREVENTATIVE MAINTENANCE GUIDE

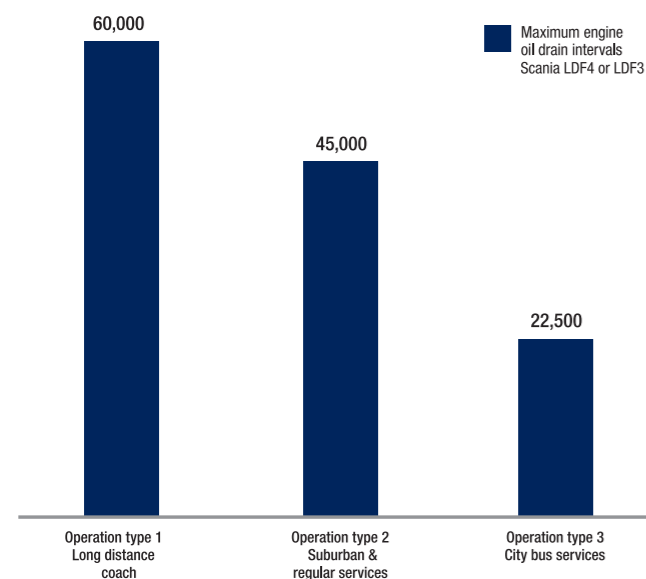
## K-N BUS



OPERATION TYPE AND DESCRIPTION
<b>Operation Type 1 - Long Services</b>
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
<b>Operation Type 2 - Suburban &amp; Regular Services</b>
Regular services between cities or towns including shorter chartered services with 20-50 stops or major deceleration per 100km
<b>Operation Type 3 - City Bus Services</b>
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

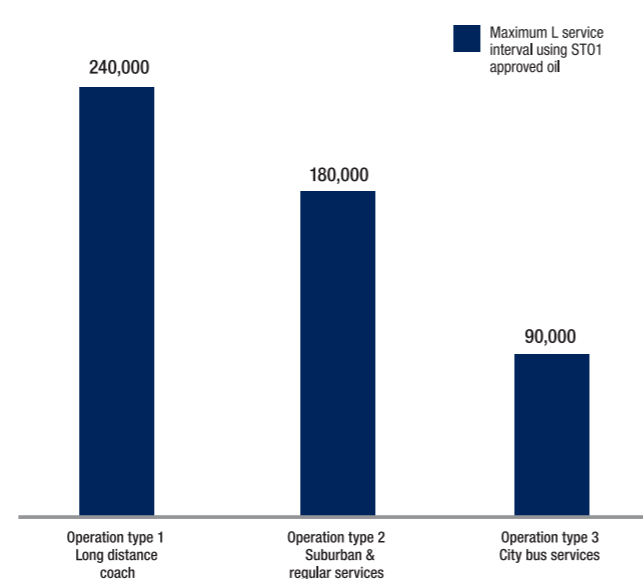


Engine oil drain intervals are considered as maximum for LDF4 or LDF3 engine oil. Intervals are suitable for Euro 4, 5 & 6 diesel engines.

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

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 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