

Extend the life
of your engine
with Perkins
genuine parts

3.152, 4.236, 6.354, 1004 and 1006

Parts
catalogue



 **Perkins®**

Dealer

Why should you use Perkins genuine parts and service?

Perkins manufactures a vast range of tailor made solutions meaning each Perkins build list is unique.

Why take the risk with non-genuine parts that may not be specified to meet the exact needs of your engine? A mismatch of components or fitting of the wrong component could cause engine damage or premature wear.

This catalogue gives you the information you need to support the identification and selection of genuine parts.

Perkins has over 85 years of diesel engine expertise. Using this expertise we offer a full parts, service and warranty package.

Perkins distributors have full knowledge of our engines with access to the latest Perkins training.

Whatever the age or condition of a Perkins engine, our service engineers have the tools and expertise to keep your engines working at peak performance.

Perkins global distribution network offers you

- A vast range of Perkins genuine parts in stock to keep your engine running
- Experienced parts and service staff, ensuring you get the right part first time
- Latest diagnostic and electronic service tools enabling quick on the spot diagnosis and repair
- Perkins trained engineers, committed to minimising engine downtime
- Fast availability of parts and service across all our engine ranges
- Local specialists who know and understand your Perkins engine

Our comprehensive systems and knowledgeable teams allow us to identify the exact parts for your engine and respond to service queries quickly and efficiently.

Perkins provides a comprehensive warranty on all parts

This includes 12 months warranty from date of purchase. If in the unlikely event of a claim being required, our warranty will indemnify the purchaser for the following costs associated with making the repair:

- Travel
- Labour
- Materials
- All related damage caused by the initial failure

If you would like more information, please contact your local distributor.

Always insist on **Perkins** genuine parts

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The importance of your Perkins engine build list

Knowing your engine's build list and serial number will make parts easier to identify and order. The build list allows Perkins distributors to identify the exact parts for your engine.

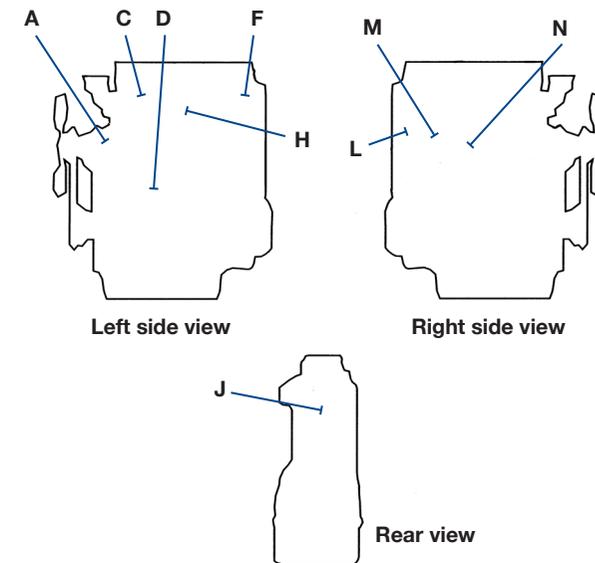
The information on this page will help you find the build list and engine serial number plate location on different engine models.

Using your engine build list you can find the right parts to repair and maintain your engine.

To quickly and accurately find the correct part of your engine you should always locate the engine build list and serial number. You should provide this to your local Perkins distributor when requesting a quotation for parts and service.

Engine number location guide

Engine type	Position
3.152	M
4.108	A
4.203	J or N
4.212	C
4.236	C or L
4.248	C
4.318	F
6.247	C or F
6.354	D
Phaser / 1000 Series / 1100 Series	H or J



Engine number guide (Produced post 1974)

Engines < 2 litre/cylinder

TU **30008** **U** **510256** **F**

Engine family and type code

TU

Country of manufacture code

U

Parts list number or SOS order reference number

30008

Engine serial number

510256

Year of manufacture code

F

Engine family and type code

A Phaser/1004 Series	L 4.236 Series	TP T6.3543
AA 1004-4	LA 4.212	TR 6.372
AB 1004-4T	LD 4.236	TT TC6.3541
AC 1004-4	LE G4.236	TU T6.3544
AD 1004e-4TW	LF 4.248	TV 6.3724
AE Fed CC	LG 4.2482	TW 6.3544
AF 1004-40S	LH C4.236	TX C6.3544
AG 1004-4	LJ T4.236	TY H6.3544
AH 1004-4T	LM 4.41	TZ HT6.3544
C 3.152 Series	T 6.354 Series	Y Phaser/1006 Series
CA P3	TC 6.354	YA 1006-6
CB 3.144	TD H6.354	YB 1006-6T
CC P3.144	TE T6.354	YC 1006-6T
CD 3.152	TF HT6.354	YD 1006e-6TW
CE D3.152	TG 6.3541	YE Fed. CC
CF G3.152	TH T6.3541	
CG P3.152	TJ 6.3542	
CJ 3.1522	TK C6.3542	
CM 3.1524		
CN T3.1524		

Within the engine code, the letters denote the engine variants and components:

A Air to air charge cooling	FF Federal	T Turbocharged
C Compensated	G Gasoline/gas	U Unit injection
CC Charged cooled	H Horizontal	V V form
D Direct injection	N Narrow front end	W Water to air charge cooling
E Electronic	P Timing chain	
F Federal emissions	S Spark ignition	

Engine number year of manufacture code guide

This code indicates the calendar year of manufacture.
The letters I, O, Q, R and Z are not used.

A 1974	W 1992
B 1975	X 1993
C 1976	Y 1994
D 1977	A 1995
E 1978	B 1996
F 1979	C 1997
G 1980	D 1998
H 1981	E 1/1/99–31/3/99
J 1982	F 1/4/99–31/12/99
K 1983	G 2000
L 1984	H 2001
M 1985	J 2002
N 1986	K 2003
P 1987	L 2004
S 1988	M 2005
T 1989	N 2006
U 1990	P 2007
V 1991	R/S 2008

Using your engine's build list to identify a part will always ensure you obtain the correct part for your engine.

You can find your nearest distributor at
www.perkins.com/distributor

Perkins® My Engine App

Access engine information for enhanced insight

Perkins My Engine App is a free mobile app giving you access to detailed information on your Perkins engines.

- Receive service reminders
- See which service tasks need to be performed
- Find consumable part numbers
- Create service history
- Download the parts book and operation and maintenance manual
- View expanded engine assembly diagrams
- Find your local distributor
- Register an unlimited number of engines to manage your entire fleet

How to get started

Download the **Perkins My Engine App** on your mobile device and register your engine to start benefiting from its many functions.

The app works on Android smartphones and tablets, and Apple iPhone, iPad and iPod Touch.

Available **free** from Google Play and the Apple App Store.

If your engine number is not recognised, please use the app to contact "myappsupport" for assistance.

For more information visit www.perkins.com/myengine.



Perkins® Hypercare

A comprehensive package of aftersales services, tailored to your needs.

You and your engine are unique. That's why we've developed Perkins® Hypercare, an adaptable package of aftersales services to enhance the performance and productivity of your engine and give you easy maintenance throughout its service life.

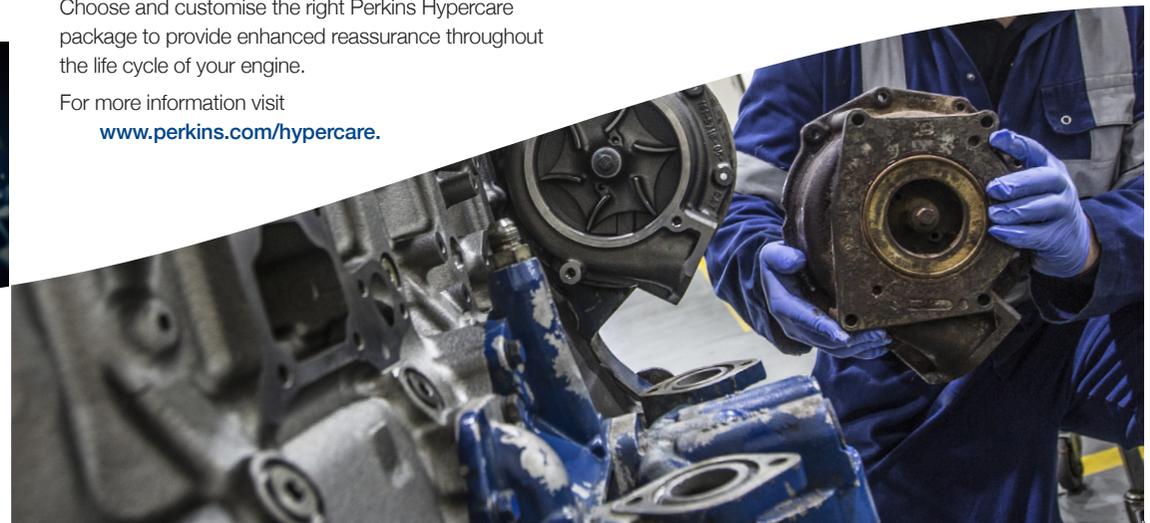
Taking support to the next level, Perkins Hypercare offers you a choice of three packages, each giving you easy access to our expert support. You can customise each one with a range of add-on services:

Expert advice	Inspections	Priority access
Perkins genuine parts with delivery options	Fluid health and asset monitoring	Emissions and regulatory compliance
Digital asset information	Expert troubleshooting, diagnostics and repair	Rebuild and upgrades
Perkins genuine fluids	Extended warranty	Risk management
Trained dealer labour	Rebuild and overhaul	Service management

Perkins Hypercare. Straightforward ownership, managed maintenance and greater peace of mind.

Choose and customise the right Perkins Hypercare package to provide enhanced reassurance throughout the life cycle of your engine.

For more information visit www.perkins.com/hypercare.



Key parts guide

For each engine family the key parts are listed by parts category. Where more than one part is listed see the category section to identify the correct part for your engine.

Product	3.152		4.236		6.354		1004		1006	
Oil filters	2654408		2654403		2654403	2654407	2654403	2654407	2654403	2654407
Fuel filters	26561117		26561117	26561118	26561117	26561118	26560143	26560145	26560143	26560145
							26561117		26561117	
Rocker cover gaskets	36811115		21826361	21826363	21826362		21826360	3681A032	21826359	3681C001
									3681C003	
Cylinder head gaskets	3681E024	3681E027	3681E021	3681E034	36812546	36812547	3681E037		21826421	
			3681E036		3681H202					
Top gasket sets	U5LT1138	U5LT1139	U5LT1002	U5LT1004	U5LT1181	U5LT1186	U5LT1178	U5LT1196	U5LT1179	U51LT1309
	U5LT5138		U5LT1006	U5LT1010	U5LT1190					
			U5LT1013	U5LT1014						
Bottom gasket sets	U5LB1110	U5LB1157	U5LB1158	U5LB1159	U5LB1224	U5LB1225	U5LB1163	U5LB1164	U5LB1167	
			U5LB5145		U5LB1226					
Water pumps	U5MW0096	U5MW0097	U5MW0104	U5MW0106	U5MW0111	U5MW0129	U5MW0106	U5MW0156	U5MW0156	U5MW0160
					U5MW0133		U5MW0108			
Thermostats	2485659	2485666	2485610	2485613	2485604	2485610	2485610	2485613	2485610	2485613
			2485659	2485666	2485613	2485659	2485C036		2485C034	2485C036
Alternators	2871A141	2871A142	2871A141	2871A142	2871A141	2871A163	2871A003	2871A142	2871A003	2871A160
	2871A165		2871A163	2871A165	2871A165		2871A141	2871A163	2871A141	2871A165
							2871A160	2871A168	2871A163	2871C202
							2871A165	2871C202	2871A168	2871C105
							2871C105			

Key parts guide continued

Product	3.152		4.236		6.354		1004		1006	
Fan belts	2614B143	2614B642	2614B642	2614B644	2614B647	2614B652	2614B642	2614B644	2873A030	2873D202
	2614B647	2614B650	2614B645	2614B647	2614B653	2614B654	2614B650	2614B653	2873D304	2873K059
	2614B653	2614B655	2614B650	2614B652	2614B656	2614B657	2614B655	2614B656	26420469	26420470
	2614B656	2614B657	2614B653	2614B654	2614B658	2614B659	2614B658	2614B662	26420471	26420472
	2614B658	2614B659	2614B655	2614B656	2614B660	2614B662	2614B664	2614B665	3161C012	2645A021
	2614B660	2614B662	2614B657	2614B658	2614B667	2614B668	2614B667	2614B668	2666108	2645A032
			2614B659	2614B660	2614B669				2645A020	2645A023
			2614B662	2614B667						
		2614B668								
Starter motors	2873A102	2873A104	2873A102	2873A030	2873A102	2873A031	2873A030	2873A031	2645F005	2645L017
	2873A030	2873A031	2873A031	2873D202	2873A030		2873D202	2873D304	2645L018	
							2873K059			
Electrical shut off solenoids	26420472		26420471	26420472	26420472		26420469	26420470		
							26420471	26420472		
							3161C012			
Heater plugs	2666103	2666108	2666103	2666108	2666103	2666108	2666103	2666108	2645F603	2645F610
Injectors	2645630	2645680	2645601	2645647	2645647	2645675	2645A010	2645A015	2645L615	2645A032
	2645A013	2645K005	2645664	2645666	2645A001	2645A010	2645A017	2645A021	2645A023	2645L017
			2645A010		2645K008		2645A023	2645A025	2645F005	2645L018
							2645A030	2645F005		
							2645L009	2645L011		
						2645L017				
Nozzles	2645A603	2645K603	2645A603	2645A604	2645A603	2645K603	2645A606	2645A608	2645A606	2645A608
	2645L604	2646825	2645A608	2645L603	2645L602	2646831	2645A611	2645A612	2645A611	2645A617
	2646848	2646850	2645L602	2646831	2646679	2646845	2645A613	2645F603	2645F603	2645F610
			2646826	2646845	2646844		2645K603	2645L607	2645L615	
			2646842				2645L608	2645L615		

Key parts guide continued

Product	3.152		4.236		6.354		1004		1006	
Lift pumps	ULPK0004	ULPK0006	ULPK0001	ULPK0003	ULPK0002	ULPK0007	ULPK0001		ULPK0002	
	ULPK0018	ULPK0034	ULPK0011		ULPK0022		ULPK0034			
Turbochargers	2674A152		2674397	2674398	2674152	2674369	2674394	2674396	2674A051	2674A110
			2674A104	2674A106	2674366		2674399	2674A061	2674A071	2674A154
			2674A108				2674A055	2674A076	2674A080	2674A071
							2674A147			
Exhaust valves	0910002	31431011	3142A052	31431701	3142A051	3142A052	3142A051		3142A051	
	31431031	31431591	31431881		31431951					
	31431991									
Inlet valves	31431261	31431281	3142H002	31431315	31431315		3142L051	3142L072	3142L051	3142L072
	31431681	31431981	31431641	31431871			3142L071		3142L071	
Valve guides	3313E734	3316A031	3343F041	3343J021	33261757	3343F041	3343F041	3343J021	3343F041	3343J021
	3316A032				3343J021					
Liners	31358323	31358345	31358324	31358346	31358324	31358346	3135X041	3135X042	3135X041	3135X042
	31358356		31358352	31358393	31358352	31358393	3135X062	3135X063	3135X062	3135X063
			31358394	3135X031	31358394					
			3135X032	3135X033						
			3135X034							
Pistons	68332	89214	68301	68814	68803		U5LL0015	U5LL0017	U5LL0015	U5LL0048
	81512		89207	U5LP0009	86740		U5LL0048	U5LL0047	U5LL0047	
			U5LP0011	U5LP0022	U5LP0014					
			U5LP0046	U5LP0047						

Key parts guide continued

Product	3.152		4.236		6.354		1004		1006	
Piston rings	41158007	41158056	41158005	41158017	41158005	41158017	4181A026	4181A021	4181A026	4181A021
	41158057	41158065	41158022	41158032	41158032	41158031	4181A041	4181A019	4181A041	4181A019
	68501		41158041	41158142	41158041					
			41158147	4181A009						
			4181A022							
Main bearing kits	U5MB0036	U5MB0035	U5MB0034		U5MB0030	U5MB0031	U5MB0034		U5MB0030	
Thrust washers	31137211	31137221	T422292	T422291	T422292	T422291	T422292	T422291	T422292	T422291
	U5TW0003		T427336		T427336		T427336		T427336	
Big end bearing kits	85036		85042	U5ME0034	85043	U5ME0035	85042	U5ME0034	85043	U5ME0035
Small end bushes	31134151		31134123	31134131	31134123	31134131	31134131	31134123	31134131	31134123
							3112E005		3112E005	
Oil seals	2415344	2418F475	2418F437	2418F475	2418F437	2418F475	2418F475	2418F437	2418F475	2418F437
	36883119		36883116	2418F701	36883116		2418F701		2418F701	
Oil pumps	41314078	41314187	41314182	4132F012	41314067	4132F016	41314182	4132F041	4132F043	
			4132F041		4132F015		4132F051	4132F056	4132F057	
Valvetrain kits							U5VK0191		U5VK0192	
Overhaul kits	U5MK0700	U5MK0700K	U5MK0704	U5MK0704K	U5MK0711K		U5MK0708	U5MK0708K	U5MK0712	U5MK0712K
	U5MK0701	U5MK0701K	U5MK0705	U5MK0705K			U5MK0709	U5MK0709K	U5MK0714	U5MK0714K
			U5MK0706	U5MK0706K						
			U5MK0707	U5MK0707K						
			U5MK0713	U5MK0713K						

Oil and fuel filters

Engines					Description	Notes*	Part number	Used with
3.152	4.236	6.354	1004	1006				
•					Spin-on type oil filter	D1:76, H1:142	2654408	
•	•	•	•		Sandwich type fuel filter	D1:84, H1:73	26561117	
	•	•	•	•	Spin-on type oil filter	D1:93, H1:143	2654403	
		•	•	•		D1:93, H1:173	2654407	
				•	Spin-on type fuel filter with water drain	D1:85, H1:158	26561118	
			•	•	Bayonet type pre filter and water trap	D1:83, H1:152	26560143	26560145
			•	•		D1:83, H1:133	26560145	26560145



Rocker cover gaskets

Engines					Description	Notes	Part number
3.152	4.236	6.354	1004	1006			
•					Services all 3.152 engines		36811115
	•				Services 4.236 engines, gasket has no bolt holes		21826361
	•				Services 4.236 engines, gasket has bolt holes		21826363
		•			Services all 6.354 engines		21826362
			•		Services all four cylinder engines with an aluminium rocker cover		21826360
			•		Services all four cylinder engines with a plastic rocker cover		3681A032
				•	Services all six cylinder engines with an aluminium rocker cover	Cork/Hypalon version of 3681C001	21826359
				•		Silicon version of 21826359	3681C001
				•		Services all six cylinder engines with a plastic rocker cover	3681C003

*Key

D1 Overall filter diameter (mm)

H1 Overall filter height (mm)

Perkins® Extended Life Coolant

Perkins Extended Life Coolant (ELC) premix contains 50 percent ELC and 50 percent purified water, lowering owning and operating costs by extending drain intervals.

Reduces engine coolant and additive costs by as much as 50 percent compared to conventional coolants. Eliminates the need for supplemental coolant additives, extends coolant change-out intervals and reduces disposal requirements, as well as being recyclable. ELC provides protection for all metals in your engine, including; aluminium copper, brass, steel, solder and cast iron.

Benefits of ELC:

- One coolant for entire fleet
- Pre-mixed formula ensures correct antifreeze/water mix
- Ensures quality of water in mix
- Eliminates gel formation and hard water scale
- Contains no silicates, phosphates or borates
- Anti-boil properties reduce damage from steam
- Anti-freeze to -37°C



Meets or exceeds ASTM D6210 standard for heavy duty, low silicate antifreeze/coolants, and ASTM D3306 for light duty and automotive applications. Part number 21820263 (20L) and 21820292 (201L drums).

Case Study:

The importance of proper cooling system maintenance

One of our customers operating machines at a mine in Africa compared components in engines using ELC against those using a mixture of water and Supplement Coolant Additives (SCAs).

The cylinder liner shown on the top right (Figure A) is from an engine operated for 5,300 hours using their usual conventional coolant had pitting which penetrated the liner wall. The injector sleeves from the same engine showed deposits and severe pitting.

The cylinder liner shown on the bottom right (Figure B) is from the same engine run for 10,013 hours with ELC. The coolant side of the liner is as new, with the injector sleeves in excellent condition.

For more information visit www.perkins.com/elc



Figure A



Figure B

Perkins® Diesel Engine Oil

Lower quality oils can lead to increased component wear, reduced engine performance, lower fuel efficiency and even higher emissions. And these problems cannot be removed by an oil change.

Perkins Diesel Engine Oil is uniquely formulated to prevent excessive sludge and deposit formation, maximising your engine's life and reducing the cost of maintenance. Available in API CI-4 or API CK-4 depending on the local emissions requirements.

Not all **engine oils** are the same

Perkins Diesel Engine Oil contains a unique blend of 12 additives, designed to optimise the performance of your engine and maximise its life, including:

- Detergent to keep the engine clean
- Dispersant to keep harmful by-products in suspension for effective filtering
- Anti-wear agent to protect components against friction and wear
- Antioxidant to prevent oil oxidation
- Viscosity modifier to maintain viscosity for longer, ensuring the correct drainage intervals
- Defoamant to prevent foam in the oil

Perkins Diesel Engine Oil is specifically designed for your engine. Talk to your Perkins distributor today. For more information visit www.perkins.com/oil



Cylinder head gaskets

Engine	Description	Notes	Part number	Used within (Top gasket set)
CE, CJ, CM, CN engines	Services 3 cylinder engines. Backbone construction with sealing track		3681E024	U5LT1139
CE, CJ, CM, engines	Services 3 cylinder engines. Copper and filler construction		3681E027	U5LT1138 U5LT5138
LA, LD, LE, LF, LG, LM, LJ engines	Services pre 1986 4 cylinder engines with flame ring liner		3681E021	U5LT1002 U5LT1003 U5LT1012 U5LT1013 U5LT1014
LD, LF, LG, LH, LJ engines	Services post 1986 4 cylinder engines with non flame ring liner	Improved tappet chamber sealing	3681E034	U5LT1004 U5LT1006 U5LT1007
LE, LG engines	Services post 1986 4 cylinder engines with non flame ring liner		3681E036	U5LT1009 U5LT1010
TC, TD, TE, TF, TP engines	Services 6.3540 engines		36812546	U5LT1181 U5LT1182
TG, TH, TT, TR engines	Services 6.3541 engines		36812547	U5LT1185 U5LT1186
TU, TW, TX, TZ engines	Services 6.3544 engines		3681H202	U5LT1190 U5LT1192
AA, AB, AC, AD AE, AF, AG, AH engines	Services 4 cylinder 1000 Series engines	Improved tappet chamber sealing	3681E037	U5LT1178 U5LT1196
YA, YB, YC, YD, YE, YG, YH, YK engines	Services 6 cylinder 1000 Series engines		21826421	U5LT1179 U5LT1309



Top gasket sets

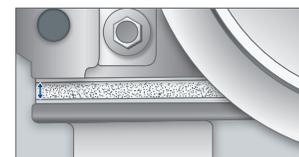
Used on	Description	Contains head gasket	Part number
CE, CJ, CM engines	Servises all naturally aspirated engines	3681E027	U5LT1138
CN engines	Servises all turbocharged engines	3681E024	U5LT1139
CE engines	Servises 75 percent of CE build lists. U5LT5138 contains the parts required to support agricultural build lists. It is similar to the more complete U5LT1138 which servises all CE lists	3681E027	U5LT5138
LA, LD, LF engines	Servises pre 1986 naturally aspirated engines with flame ring liners	3681E021	U5LT1014
LG engines	Servises pre 1986 naturally aspirated engines with flame ring liners	3681E021	U5LT1013
LJ engines	Servises pre 1986 turbocharged engines with flame ring liners and no heat shield	3681E021	U5LT1002
LD, LF engines	Servises post 1986 naturally aspirated engines with non-flame ring liners	3681E034	U5LT1004
LG engines	Servises post 1986 naturally aspirated engines	3681E036	U5LT1010
LJ engines	Servises post 1986 turbocharged engines with non-flame ring liner and no heat shield	3681E034	U5LT1006
TC engines	Servises all non marine, naturally aspirated engines	36812546	U5LT1181
TU, TW, TX engines	Servises non marine engines	3681H202	U5LT1190
TH, TG, TR, TT engines	Servises non marine engines	36812547	U5LT1186
AA, AB, AC, AD, AE, AF, AG, AH engines	Servises all 4 cylinder engines with an aluminium rocker cover	3681E037	U5LT1178
AA, AB, AC, AD, AE, AF, AG, AH engines	Servises all 4 cylinder engines with a plastic rocker cover	3681E037	U5LT1196
YA, YB, YC, YD, YE, YF, YG, YH, YJ, YK engines	Servises all 6 cylinder engines with an aluminium rocker cover	21826421	U5LT2179
YA, YB, YC, YD, YE, YF, YG, YH, YJ, YK engines	Servises all 6 cylinder engines with a plastic rocker cover	21826421	U5LT1309

Note: Only key top gasket sets are listed. For more information contact your local www.perkins.com/distributor

Buy genuine to ensure you have the correct specification gasket for your engine.

Below are just some of the key properties of Perkins genuine gaskets.

Relaxation

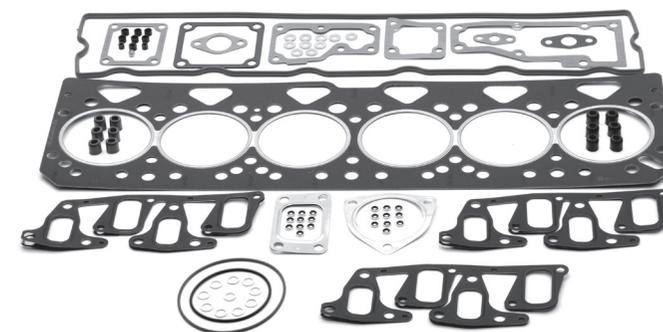


- Once compressed, the material must expand to completely fill the gap and maintain its integrity over time.

Swell



- Some gaskets must resist liquids and not swell.
- In other applications gaskets are designed to swell. They are engineered to absorb liquids, forcing the gasket to expand and achieve a perfect seal. This is known as controlled swell.



Bottom gasket sets

Used on	Description	Part number
CD, CE, CJ, CM, CN engines	Services 3 cylinder industrial and marine applications	U5LB1110
CE, CN engines	Services 3 cylinder agricultural applications	U5LB1157
LD, LE, LF, LG, LJ, LM engines	Services 4 cylinder industrial applications with cast sumps	U5LB1158
LD, LF, LH, LJ engines	Services 4 cylinder agricultural applications with stressed sumps	U5LB5145
LD, LE, LF, LG, LJ, LM engines	Service 4 cylinder engines with pressed steel sumps	U5LB1159
TU, TW engines	Services 6 cylinder agricultural engines with stressed blocks	U5LB1226
TC, TD, TE, TF, TG, TH, TJ, TK, TR, TT engines	Services 6 cylinder engines	U5LB1224
TP, TU, TV, TW, TX, TY, TZ engines	Services 6 cylinder engines	U5LB1225
AA, AB, AC, AD, AE engines	Services 4 cylinder engines with non compressor timing cases with cast sumps	U5LB1163
AA, AB, AD, AE engines	Services 4 cylinder engines with non compressor timing cases with pressed steel sumps	U5LB1164
YA, YB, YD, YE, YG, YH engines	Services 6 cylinder engines with non compressor timing cases with unstressed sumps	U5LB1167

The joints and gaskets in your engine are subjected to extremes of temperature and pressure in a hostile environment.

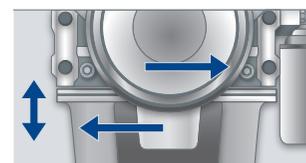
Your joints and gaskets have to:

- Seal against gases up to 2,250 psi movement
- Seal against water, antifreeze and oil up to 180°C, and exhaust temperatures up to 750°C
- Seal against relative movement, for example exhaust manifolds sliding against the cylinder head
- Withstand ambient temperatures as low as minus 40°C

Buy genuine to ensure you have the correct specification gasket for your engine.

Below are just some of the key properties of Perkins genuine gaskets.

Flexibility



- Gasket material must be suited to the applications it is sealing. In some instances the material will be required to move with the faces it is sealing. For example, stressed sump gaskets must withstand the stressed loads between an engine and the stressed sump when a chassis moves during operation.

Recovery



- The gasket material must perform correctly in a changing operating environment, withstanding extreme heat and liquids under pressure.
- It must return to its original state to maintain the perfect seal. An example of this is during the expansion and contraction of heated metals.

Water pumps

Used on	Description	Part number
CE, CM engines	Belt driven water pump, with straight inlet	U5MW0096
CE, CM engines	Belt driven water pump, with elbow inlet	U5MW0097
LD, LE engines	Belt driven water pump, with bypass slot (not visible on photo) bearing housing diameter of 60 mm	U5MW0104
LJ, LM, AF, AG, AH, AP, AQ engines	Belt driven water pump, bearing housing diameter of 60 mm	U5MW0106
TU, TW engines	Belt driven water pump, bearing housing diameter of 60 mm	U5MW0111
TU, TW engines	Belt driven water pump, heavy duty bearing housing diameter of 73 mm	U5MW0129
TU, TW, TX engines	Belt driven water pump, heavy duty bearing housing diameter of 73 mm. Large body includes twin thermostat housing	U5MW0133
AA, AG, AH, LM engines	Belt driven water pump, heavy duty bearing housing diameter of 73 mm	U5MW0108
AA, AB, AC, AD, AE, AA, AB, AD, AE, AL, YA, YA, YB, YD, YE, YG engines	Gear driven water pump with E018 identifier*	U5MW0156
YA, YC, YD, YE, YH engines	Gear driven water pump with E021 identifier*	U5MW0160



U5MW0096



U5MW0097



U5MW0104



U5MW0106



U5MW0111



U5MW0129



U5MW0133



U5MW0108



U5MW0160



U5MW0156

*Note: Pictures represent rear face of water pump.
Identifier found on front face next to cover.

Thermostats

Engines					Description	Notes	Part number
3.152	4.236	6.354	1004	1006			
•	•	•			Main diameter 54 mm, thermostat includes jiggle pin	82°C thermostat to open	2485666
•	•	•			Main diameter 54 mm, no jiggle pin	82°C thermostat to open	2485659
		•			Main diameter 54 mm, no jiggle pin	82°C thermostat to open	2485604
	•	•	•	•	Main diameter 54 mm, thermostat includes jiggle pin	71°C thermostat to open	2485610
	•	•	•	•	Main diameter 54 mm, thermostat includes jiggle pin	82°C thermostat to open	2485613
			•	•	Main diameter 67 mm, thermostat includes jiggle pin	82°C thermostat to open	2485C036
				•	Main diameter 67 mm, thermostat	82°C thermostat to open	2485C034



2485666



2485659



2485604



2485610



2485613



2485C036



2485C034

Alternators

Engines					Description	Part number
3.152	4.236	6.354	1004	1006		
			•	•	Left or right hand mounting: 24 volt, 55 amp with stud connector	2871A003
•	•	•	•	•	Right hand mounting: 12 volt, 55 amp with Euro connector	2871A141
•	•		•		Left hand mounting: 12 volt, 55 amp with Euro connector	2871A142
			•	•	Right hand mounting: 12 volt, 72 amp with Euro connector	2871A160
•	•	•	•	•	Right hand mounting: 12 volt, 65 amp with Euro connector	2871A163
•	•	•	•	•	Right hand mounting: 12 volt, 45 amp with Euro connector	2871A165
			•	•	Left hand mounting: 12 volt, 85 amp with stud connector	2871A167
			•	•	Right hand mounting: 12 volt, 55 amp with stud connector	2871C105
			•	•	Right hand mounting: 24 volt, 55 amp with stud connector	2871C202



2871A003



2871A141



2871A142



2871A160



2871A163



2871A165



2871A167



2871C105

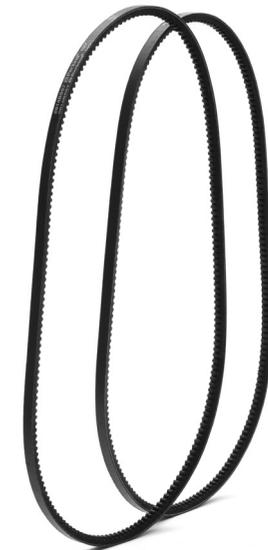


2871C202

Belts

Engines					Description	Part number
3.152	4.236	6.354	1004	1006		
	•				1212 mm	2614B645
•	•	•			1237 mm	2614B647
	•	•			1300 mm	2614B652
	•	•			1325 mm	2614B654
•	•	•	•	•	1350 mm	2614B656
•	•	•	•	•	1312 mm	2614B653
•	•		•	•	1175 mm	2614B642
•					1187 mm	2614B143
	•		•	•	1200 mm	2614B644
•	•		•	•	1275 mm	2614B650
•	•	•	•	•	1375 mm	2614B658

Engines					Description	Part number
3.152	4.236	6.354	1004	1006		
•	•	•			1400 mm	2614B660
			•	•	1462 mm	2614B665
	•	•	•	•	1500 mm	2614B668
•	•		•	•	1337 mm	2614B655
•	•	•			1362 mm	2614B657
•	•	•			1387 mm	2614B659
•	•	•	•	•	1425 mm	2614B662
			•	•	1450 mm	2614B664
	•	•	•	•	1487 mm	2614B667
		•			1512 mm	2614B669



Starter motors

Engines					Description	Part number
3.152	4.236	6.354	1004	1006		
•					Right hand mounting: 12 volt, 10 tooth	2873A104
•	•	•			Right hand mounting: 12 volt, 10 tooth	2873A102
	•		•	•	Right hand mounting: 12 volt, 10 tooth	2873D202
	•		•	•	Left and right hand mounting: 24 volt, 10 tooth	2873K059
			•	•	Right hand mounting: 24 volt, 10 tooth	2873D304
			•	•	Right hand mounting: 12 volt, 10 tooth, Lucar and stud connectors	2873A030
			•		Left hand mounting: 12 volt, 10 tooth, Lucar and stud connectors	2873A031



Electrical shut off solenoids

Engines					Description	Notes	Part number
3.152	4.236	6.354	1004	1006			
			•	•	12 Volt, 16 ohm, JPT connector	In 24 volt applications, use with 16 ohm ballast resistor 2861A009	26420469
			•	•	24 Volt, JPT connector		26420470
			•	•	24 Volt, twin Lucar connector, replaces 26431675		26420471
•	•	•	•	•	12 Volt, 16 ohm, twin Lucar connector, replaces 28730179	In 24 volt applications, use with 16 ohm ballast resistor 2861A009	26420472
			•	•	Adaptor (Lucar to JPT)		3161C012



26420469 (Blue)



26420470 (Red)



26420471 (Red)



26420472 (Blue)



3161C012

Heater plugs

Engines					Description	Part number
3.152	4.236	6.354	1004	1006		
•	•	•	•	•	12 volt, screw terminal	2666103
•	•	•	•	•	12 volt, Lucar terminal	2666108



2666103



2666108

Perkins® Power Exchange parts

Perkins Power Exchange - a genuine alternative to new.

Today, sustainability is a key driver for every business. It is a vital component, reducing waste and environmental impact, minimising cost and maximising efficiency.

With Perkins remanufactured parts **your engine is reborn** – delivering **high performance and efficiency**. That is because we rebuild the critical elements to the very highest standards using only genuine components, so they are as **good as new**.

Sustainability is achieved with **no compromise on quality**.

Clear advantages

- As-new quality and performance
- Built with genuine parts
- Built to original factory specifications
- Environmentally friendly
- Cost savings of around 30 percent
- Tested and quality assured
- 12-month warranty



Easy as buying new

Our **Power Exchange** programme is seamlessly simple. It is the same over-the-counter process as buying new. Just bring your original used Perkins part to your distributor and we'll replace it with an off-the-shelf remanufactured equivalent part.

Our engineers have the unique skills, knowledge and technology to provide Power Exchange remanufactured parts that deliver as-new performance.

Discover more at www.perkins.com/powerexchange

What is 'new-for-old'?

Perkins is continually developing aftermarket solutions to help reduce cost of ownership and give you more choice,

'New-for-old'

- A product offering that is managed through Perkins Power Exchange
- Gives you the option of buying a new part when the old part is returned
- On average 15 percent discount if they return their existing core unit



Turbochargers

Engines					Description	Part number
3.152	4.236	6.354	1004	1006		
•					Non wastegated	2674A152
	•				Non wastegated	2674397
	•				Non wastegated	2674398
	•				Wastegated	2674A104
	•				Wastegated	2674A106
	•				Wastegated	2674A108
		•			Non wastegated	2674152
		•			Non wastegated	2674366
		•			Non wastegated	2674369
			•		Non wastegated	2674394
			•		Non wastegated	2674396
			•		Non wastegated	2674399
				•	Non wastegated	2674A051
				•	Wastegated	2674A055
				•	Non wastegated	2674A061
				•	Non wastegated	2674A071
				•	Non wastegated	2674A076
				•	Non wastegated	2674A080
				•	Non wastegated	2674A110
			•		Non wastegated	2674A147
				•	Non wastegated	2674A154



To complement our turbocharger range, we also offer **remanufactured** and **new-for-old** options through our **Perkins Power Exchange** programme to give you optimum choice.

To find out more about Perkins Power Exchange products, see page 20.

A turbocharger is used to increase engine efficiency and power output.

A turbocharged engine may have up to 40 percent more power than a naturally aspirated engine of the same cylinder capacity. Turbochargers should be considered as an integral part of the engine and are jointly designed by the turbocharger and engine manufacturer for performance and reliability.

There are many considerations that go into turbocharger design: engine size, horsepower and torque requirements, highway or off-highway application, load, altitude, etc. A small frame turbocharger has a rotational speed in excess of 150,000 rpm and is precision-manufactured with tolerances as fine as 1/1,000,000 of an inch.

A wastegate is sometimes used to control turbine speed which in turn helps to control boost. The wastegate is activated by a diaphragm and when opened, allows excess exhaust pressure to be released from the turbine wheel housing.



Facts

Original Perkins turbochargers:

- operate at up to 180,000 revolutions per minute
- are precision manufactured with tolerances as fine as one micron (1/1000th of a millimetre)
- are tested at a simulated altitude of 4,500 m, to ensure correct operation and reliability

Related parts

Lubrication is critical to turbocharger longevity. Premature wear and, ultimately, failure can be caused by insufficient or contaminated oil.

It is advisable to perform an oil change and replace the oil filter when you replace your turbocharger.

Poor air filtration could allow foreign objects to enter the compressor wheel housing which could lead to damage/ premature wear and will cause premature degradation of oil. A new air filter is a sound investment.

Studs and nuts can be damaged when removing the turbocharger for replacement. Fitting new studs or nuts ensures that the turbocharger can be refitted correctly and removed in future. Studs and nuts are low cost items.

Joints and clips are not usually supplied with the turbocharger. It is recommended that new clips are used to ease re-fitting of hoses and pipes. It is essential to use a new gasket when refitting the turbocharger to the exhaust manifold to ensure correct sealing.

Fuel systems

Engines					Injector	Tag code	Nozzle
3.152	4.236	6.354	1004	1006			
•					2645680	GM	2646848
•					2645K005	HN	2646850
•					2645630	EE	2646825
•					2645A013	HH	2645K603
	•				2645666	FY	2646842
	•				2645664	FW	2646826
	•				2645601	CU	2646690
	•	•			2645647	FC	2646831
	•	•	•		2645A010	HU	2645A604
		•			2645K008	HS	2646844
		•			2645675	GG	2646845
		•			2645A001	HC	2645A602
			•	•	2645A017	JB	2645A608
			•	•	2645A015	HZ	2645K603
			•	•	2645L009	NJ	2645L607
			•	•	2645A025	JK	2645A613
			•	•	2645A021	JF	2645A606
			•	•	2645A030	JS	2645A612
			•	•	2645L017	NT	2645L615
			•	•	2645A032	JU	2645A617
			•	•	2645A020	JE	2645A608



To complement our fuel systems range, we also offer **remanufactured** and **new-for-old** options through our **Perkins Power Exchange** programme to give you optimum choice.

To find out more about Perkins Power Exchange products, see page 20.

Perkins injectors and pumps provide failsafe precision.

With fuel being delivered many times during each combustion cycle, and each injection lasting an incredible 250 millionths of a second, injectors will actuate billions of times during the life of your engine – faultlessly.

Robust and built to the highest standards, our injectors are designed with special coatings to handle variable quality ‘real world’ fuels. Your fuel injection system is complex and essential for optimum engine operation, so we make every part with breath-taking precision.

Wider injection holes compromise efficiency, which is why our injector nozzle holes are engineered with diameters as small as 99 microns, equivalent to the width of a human hair, in order to deliver optimum in-engine fuelling performance.

Our injectors and pumps are designed specifically for your engine too. There really is only one way to guarantee your engine’s power delivery and long-term health: make sure you replace pumps and fuel injectors with genuine Perkins parts.

There is more than one route to your ideal fuel injection system. We offer buying options that include new, remanufactured and new-for-old. So, you can find a solution that matches your priorities and your budget

A comprehensive warranty, whatever route you choose.

We have total confidence in all our fuel injection parts, whether they are brand new, remanufactured or new-for-old.

That is why they all come with a 12-month comprehensive warranty.

Discover more at www.perkins.com/fuelinjection



Lift pumps

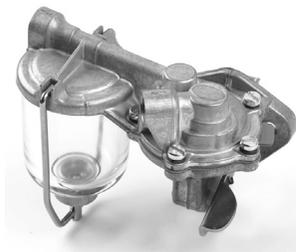
Engines					Description	Part number
3.152	4.236	6.354	1004	1006		
•					2641808 identifier, also replaces 2641712	ULPK0004
•					A063 identifier, also replaces 2641311 and 2641309	ULPK0006
•					2641408 identifier, also replaces 2641406	ULPK0018
	•		•		A071 identifier	ULPK0001
	•				A073 identifier	ULPK0003
		•		•	A070 identifier	ULPK0002
		•			A064 identifier, also replaces 2641378 and 2641372	ULPK0007
		•			A056 identifier, also replaces 2641715 and 2641710	ULPK0022
	•				A082 identifier, also replaces 2641A067 and ULPK0005	ULPK0034
	•		•		2641338 identifier, also replaces 2641478 and 2641477	ULPK0011



ULPK0004



ULPK0006



ULPK0018



ULPK0001



ULPK0003



ULPK0002



ULPK0007



ULPK0022



ULPK0034



ULPK0011

Oil pumps

Engines					Description	Part number
3.152	4.236	6.354	1004	1006		
•					Services 3 cylinder engines. Pump fitted with a sintered gear	41314078
•					Services 3 cylinder engines. Pump fitted with a machined and hardened gear	41314187
	•				Services 4 cylinder naturally aspirated engines not fitted with balancers	41314182
	•				Services 4 cylinder turbocharged engines not fitted with balancers	4132F012
	•		•		Services 4 cylinder engines fitted with balancers	4132F041
			•		Services 4 cylinder naturally aspirated engines not fitted with balancers	4132F051
			•		Services 4 cylinder turbocharged engines not fitted with balancers	4132F056
				•	Services 6 cylinder turbocharged engines	4132F057
				•	Services 6 cylinder naturally aspirated engines	4132F043
		•			Services 6.3544 engines	4132F015
		•			Services 6.3543 and 6.3544 engines	4132F016
		•			Services 6.3540 and 6.3541 engines	41314067



41314078



41314187



41314182



4132F012



4132F041



4132F051



4132F056



4132F057



4132F043



4132F015/4132F016



41314067

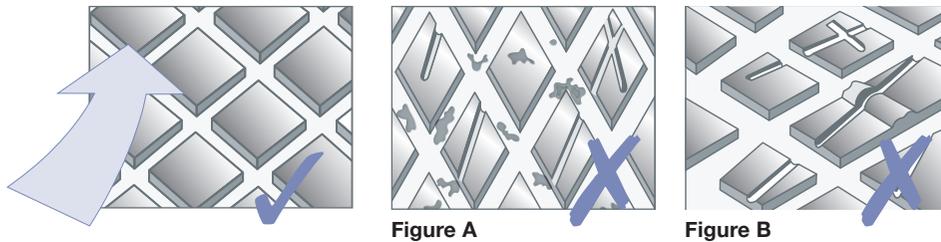
Liners

Engines					Description	Notes	Part number
3.152	4.236	6.354	1004	1006			
•					Flanged liner, press fit, unfinished	0.25 mm oversize OD = 31358384	31358323
•					Flanged liner, slip fit, pre finished	0.75 mm oversize OD = 31358357	31358345
•					Plain liner, press fit, unfinished	0.76 mm oversize OD = 31358358	31358356
	•				4.236 non-flame ring liner, press fit, unfinished, post 1986	0.50 mm oversize OD = 3135X036	3135X031
	•				4.236 non-flame ring liner, slip fit, pre finished, post 1986	0.25 mm oversize OD = 3135X035	3135X032
	•		•		Non-flame ring liner, press fit, unfinished, post 1986	0.50 mm oversize OD = 3135X037	3135X033
	•				Non-flame ring liner, slip fit, pre finished, post 1986		3135X034
	•	•			Plain liner, press fit, unfinished	0.25 mm oversize OD = 31358331	31358324
	•				Flame ring liner, press fit, unfinished pre 1986	0.50 mm oversize OD = 31358362	31358346
	•				Flame ring liner, slip fit, pre finished, pre 1986		31358352
	•	•			Flame ring liner, press fit, unfinished, pre 1986	0.25 mm oversize OD = 31358398	31358393
	•	•			Flame ring liner, slip fit, pre finished, pre 1986	1.00 mm oversize OD = 31358397	31358394
			•	•	Non-flame ring liner, press fit, unfinished (AA, AB, AC, YA, YB and YC)	0.50 mm oversize OD = 3135X046	3135X041
			•	•	Non-flame ring liner, slip fit, pre finished	0.25 mm oversize OD = 3135X045	3135X042
			•		Flame ring liner, slip fit, pre finished	0.25 mm oversize OD = 3135X065	3135X062
			•		Flame ring liner, press fit unfinished (AD, AE, YD and YE)	0.50 mm oversize OD = 3135X066	3135X063

Cross hatching pattern

The angle of the cross hatching controls oil retention and lubrication of piston rings

- If the angle is too narrow (Figure A) oil drains too fast and lubrication is poor
- If the angle is too large (Figure B) oil is retained leading to excessive oil consumption and smoke



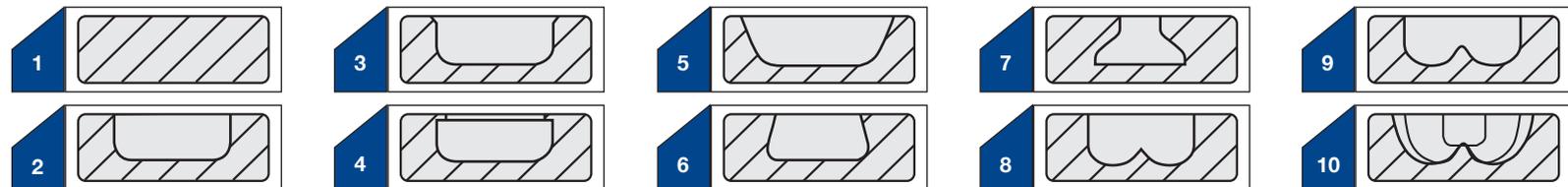
Pre-finished liners guarantee correct cross hatching pattern which assists oil control



Pistons

Engines					Description	Use with ring kit	Part number
3.152	4.236	6.354	1004	1006			
•					Pre-topped piston, 5 ring, monometal, crown '8'	68501, 41158057	68332
•					Pre-topped piston, 5 ring, monometal, crown '1'	41158056, 41158057	81512
•					Pre-topped piston, 4 ring, monometal, crown '2'	41158065	89214
	•				Pre-topped piston, 5 ring, monometal, crown '2'	41158041	68301
	•				Pre-topped piston, 3 ring, controlled expansion, anodised crown, crown '6'	41158022	68814
	•				Pre-topped piston, 4 ring, monometal, crown '2'	4181A009	89207
	•				Pre-topped piston, 3 ring, controlled expansion, crown '2'	41158022	U5LP0009
	•				Pre-topped piston, 3 ring, controlled expansion, top ring insert, graphite coated skirt, crown '3'	41158147	U5LP0011
	•				Pre-topped piston, 3 ring, top ring insert, controlled expansion, graphite coated skirt, crown '3' alternative to U5LP0046 by engine set	4181A022	U5LP0022
	•				Pre-topped piston, 3 ring, top ring insert, controlled expansion, graphite coated skirt, crown '3', alternative to U5LP0022 by engine set	4181A022	U5LP0046
	•				Gas piston, 4 ring, top ring insert, crown '2'	41158142	U5LP0047
		•			Pre-topped, 3 ring, controlled expansion, top ring insert, graphite coated skirt, crown '8'	41158005	
		•			Pre-topped piston, 5 ring, monometal, crown '9'	41158041	86740
		•			Pre-topped piston, 3 ring, controlled expansion, top ring insert, graphite coated skirt, crown '9'	41158017	U5LP0014
			•	•	Pre-topped piston, 3 ring, top ring insert, controlled expansion, tin plated, crown '10'	4181A026	U5LL0015
			•		Pre-topped piston, 3 ring, graphite coated skirt, crown '10'	4181A019	U5LL0017
			•	•	Pre-topped piston, 3 ring, top ring insert, controlled expansion, tin plated, crown '10'	4181A041	U5LL0048
			•	•	Pre-topped piston, 3 ring, anodised crown, top ring insert, graphite coated skirt, crown '10'	4181A026	U5LL0047
			•	•	Pre-topped, 3 ring, top ring insert, graphite coated skirt, crown '10'	4181A026	U5LL0047

Piston crown cross section



Piston rings

Engines					Description	Used with piston kit	Part number
3.152	4.236	6.354	1004	1006			
•					5 ring kit	68332	68501
•					4 ring kit		41158007
•					5 ring kit	81512	41158056
•					5 ring kit	68332	41158057
•					4 ring kit	89214	41158065
	•				4 ring kit	68814 and U5LP0009	41158022
	•				4 ring kit	U5LP0047	41158142
	•				3 ring kit	U5LP0011	41158147
	•				4 ring kit	89207	4181A009
	•				3 ring kit	U5LP0022 and U5LP0046	4181A022
	•	•			3 ring kit	68803	41158005
	•	•			3 ring kit	U5LP0011 and U5LP0014	41158017
	•	•			5 ring kit		41158032
	•	•			5 ring kit	86740 and 6830	41158041
		•			5 ring kit		41158029
		•			4 ring kit		41158031
			•	•	3 ring kit	U5LL0015 and U5LL0017	4181A019
			•	•	3 ring kit	U5LL0014 and U5LL0016	4181A026
			•	•	3 ring kit	U5LL0021 and U5LL0025	4181A041

At first glance non-genuine parts appear identical to genuine Perkins Powerpart components, but in fact, there is a substantial difference between the two.

The ring spring must consistently achieve the correct pressure on the liner (Figure A).

Non-genuine rings can create excessive pressure on the liner (Figure B) which can break down the oil film, increase the rate of wear, and cause scuffing through metal to metal contact.

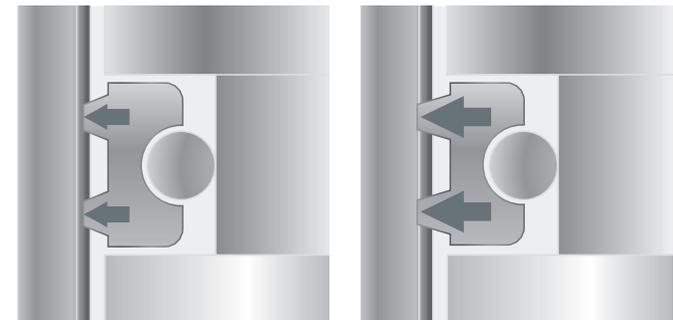


Figure A

Figure B

Main bearing kits

Engines					Description	Part number
3.152	4.236	6.354	1004	1006		
•					Services pre 1997 engines (up to engine number U983573C)	U5MB0008
•					Services post 1997 engines (after engine number U983574C)	U5MB0035
	•		•		Services naturally aspirated and turbocharged 4 cylinder engines	U5MB0034
		•			Services TP, TU, TV, TW, TX, TY, TZ	U5MB0030
		•			Services TC, TG, TH, TS, TR	U5MB0031
		•			Services higher rated engines TC, TE, TF, TG, TH, TK, TT	U5MB0031
		•		•	Services naturally aspirated and turbocharged 6 cylinder engines up to 180 bhp	U5MB0030
				•	Services naturally aspirated, turbocharged, and charge cooled 6 cylinder engines	U5MB0030

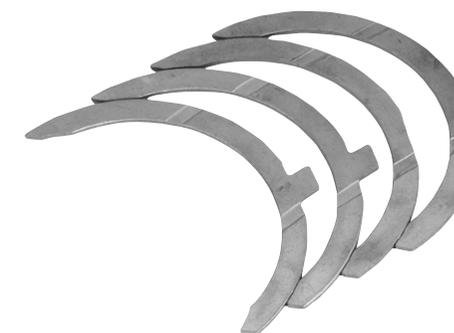
Note: Undersize bearings are available - A, B or C should be added to part number for relevant size

A = 0.25mm u/s B = 0.50mm u/s C = 0.75mm u/s



Thrust washers

Engines					Description	Notes	Part number
3.152	4.236	6.354	1004	1006			
•					Top thrust washer	Oversize version 31137212. Check service bulletin number 21 if changing block or crankshaft	31137211
•					Bottom thrust washer	Oversize version 31137222. Check service bulletin number 21 if changing block or crankshaft	31137221
•					Thrust washer kit. Contains two of 31137211, two of 31137221	Half oversize kit = U5TW0003A, Full oversize kit = U5TW0003B. Check service bulletin number 21 if changing block or crankshaft	U5TW0003
	•	•	•	•	Top thrust washer	Oversize version T422289	T422292
	•	•	•	•	Bottom thrust washer	Oversize version T422290	T422291
	•	•	•	•	Thrust washer kit. Contains two of T422291, two of T427336	Half oversize kit = T427339 Full oversize kit = T427337	T427336



Big end bearing kits

Series					Description	Part number
3.152	4.236	6.354	1004	1006		
●					Services naturally aspirated and turbocharged 3 cylinder engines	85036
	●		●		Services naturally aspirated 4 cylinder engines	85042
	●		●		Services turbocharged 4 cylinder engines	U5ME0034
		●		●	Services naturally aspirated 6 cylinder engines	85043
		●		●	Services turbocharged 6 cylinder engines (no oil hole)	U5ME0035

Note: Undersize bearings are available - A, B or C should be added to part number for relevant size.

A = 0.25mm u/s B = 0.50mm u/s C = 0.75mm u/s

New con rod nut should be fitted where applicable.

Oil seals

Series					Description	Part number
3.152	4.236	6.354	1004	1006		
●					Front seal for all 3.152 engines	2415344
	●	●	●	●	Front seal for all 4.236, 6.354 and 1000 Series engines	2418F437
●					Rear rope type seal for all 3.152 engines	36883119
	●	●			Rear rope type seal for all 4.236 and 6.354 engines	36883116
●	●	●	●	●	Rear lip type seal for all 3.152, 4.236, 6.354 and 1000 Series engines. This type of seal was replaced on 4.41 and 1000 Series engines after May 2001, (see below)	2418F475
	●		●	●	Rear unitised seal fitted to 4.41 and 1000 Series after the following cut-in numbers: LM****U920938H, Y*****U764752H, A*****U993671H (May 2001)	2418F701

Small end bushes

Series					Description	Notes	Part number
3.152	4.236	6.354	1004	1006			
●					Services naturally aspirated and turbocharged engines	Requires reaming after fitting	31134151
	●	●	●	●	Services naturally aspirated engines	Requires reaming after fitting	31134123
	●	●	●	●	Services turbocharged engines	Requires wedging and reaming after fitting. Services 1000 Series built before September 2002	31134131
			●	●	Services AD, AE, YD, YE only	Requires wedging and reaming after fitting	3112E005

Exhaust valves

Engines					Description	Notes	Part number
3.152	4.236	6.354	1004	1006			
●					45 degrees CD engines only	Use with valve guide 3316A031	0910002
●					35 degrees services engines post 1979	Use with valve guide 3316A031	31431011
●					35 degrees carbon break stem	Use with valve guide 3313E734	31431031
●					45 degrees services engines pre 1979, plain stem	Use with valve guide 3316A031	31431591
●					35 degrees CJ engines only	Use with valve guide 3316A031	31431991
	●				45 degrees services all gas engines. Stellite faced	Use with valve guide 3343J021. Oversize stemmed versions available for pre 1985 engines	31431701
	●				45 degrees services all naturally aspirated engines	Use with valve guide 3343J021	31431881
	●				45 degrees services all turbocharged engines	Use with valve guide 3343J021	3142A052
		●	●	●	45 degrees straight stem	Use with valve guide 3343J021	3142A051
		●			45 degrees carbon break on stem, nimonic valve	Use with valve guide 33261757	31431951

Inlet valves

Engines					Description	Notes	Part number
3.152	4.236	6.354	1004	1006			
●					45 degrees CD engines only	Use with valve guide 3316A031	31431261
●					45 degrees services CE engines pre 1979	Use with valve guide 3316A031	31431281
●					35 degrees services CE engines post 1979	Use with valve guide 3316A031	31431681
●					35 degrees chrome plated valve stem	Use with valve guide 3316A032	31431981
	●				30 degrees services all turbocharged engines	Use with valve guide 3343F041	3142H002
	●				45 degrees standard valve	Use with valve guide 3343F041	31431641
	●				46 degrees services all gas engines. Oversize valves available for pre 1985 engines	Use with valve guide 3343F041	31431871
	●	●			45 degrees high specification valve	Use with valve guide 3343F041	31431315
			●	●	45 degrees naturally aspirated	Use with valve guide 3343F041	3142L051
			●	●	45 degrees turbocharger pre U608300W	Use with valve guide 3343F041	3142L071
			●	●	30 degrees turbocharger post U608301W	Use with valve guide 3343F041	3142L072

Valve guides

Engines					Description	Part number
3.152	4.236	6.354	1004	1006		
•					Pre finished inlet and exhaust guide, plain bore	3313E734
•					Pre finished inlet and exhaust guide, carbon break in bore (62 mm long)	3316A031
•					Pre finished inlet and exhaust guide, carbon break in bore (56 mm long)	3316A032
		•			Pre finished exhaust guide, plain bore	33261757
	•	•	•	•	Pre finished inlet and exhaust guide, carbon break in bore	3343J021
	•	•	•	•	Pre finished inlet guide	3343F041

Valvetrain kits

Engines					Kit contents				Kit number
3.152	4.236	6.354	1004	1006	Inlet/exhaust valves	Inlet/exhaust guides	Additional comments	Comments	
			•		3142L072 3142A051	3343F041 3343J021	Springs, inner springs, caps, cotters, washers (inlet and exhaust)	30 degree inlet	U5VK0191
				•	3142L072 3142A051	3343F041 3343J021	Springs, inner springs, caps, cotters, washers (inlet and exhaust)	30 degree inlet	U5VK0192

Overhaul kits

An engine overhaul kit is a one-box solution, containing all the key parts required for your engine overhaul.

Kit contents are carefully established to service a wide variety of Perkins build lists.

So every genuine part within the kit is matched exactly to the engine's specification. Only correctly specified parts ensure the ongoing performance and reliability of your engine.

Overhaul kits are ordered under a single part number making the purchase of parts for your engine overhaul as simple as possible. Kits also provide significant cost savings when compared to buying individual components.

Contact your distributor to check the compatibility of a kit for your application or for information on additional overhaul kits not listed in this catalogue.

Overhaul kits are great value. You may be surprised how much you could save.

Overhaul kits contain:

- Pistons
- Rings
- Liners
- Oil seals
- Top gasket set
- Bottom gasket set
- Connecting rod nuts (where required)



Engines						Description	Key components (included)			Related parts (additional to kit)			Kit number
3.152	4.236	4.248	6.354	1004	1006		Piston	Rings	Liner	Main bearings	Big end bearings	Thrust washers	
CE						In frame (slip fit), lip seal only	89214	41158065	31358345	U5MB0008 (up to 05/1997) U5MB0035 (post 05/1997)	85036	31137211 31137221	U5MK0700
CE						Reconditioner (press fit), lip seal only	89214	41158065	31358323	U5MB0008 (up to 05/1997) U5MB0035 (post 05/1997)	85036	31137211 31137221	U5MK0700K
CE						In frame (slip fit), lip seal only	68332	41158057	31358345	U5MB0008 (up to 05/1997) U5MB0035 (post 05/1997)	85036	31137211 31137221	U5MK0701
CE						Reconditioner (press fit)	68332	41158057	31358323	U5MB0008 (up to 05/1997) U5MB0035 (post 05/1997)	85036	31137211 31137221	U5MK0701K
	LD					In frame (slip fit), lip seal only, flame ring	68301	41158041	31358394	U5MB0034	85042	T422292 T422291	U5MK0704
	LD					Reconditioner (press fit), lip seal only, flame ring	68301	41158041	31358394	U5MB0034	85042	T422292 T422291	U5MK0704K

Overhaul kits continued

Engines						Description	Key components (included)			Related parts (additional to kit)			Kit number
3.152	4.236	4.248	6.354	1004	1006		Piston	Rings	Liner	Main bearings	Big end bearings	Thrust washers	
	LD					In frame (slip fit), non flame ring	68301	41158041	3135X032	U5MB0034	85042	T422292 T422291	U5MK0713
	LD					Reconditioner (press fit), non flame ring	68301	41158041	3135X032	U5MB0034	85042	T422292 T422291	U5MK0713K
	LJ					In frame (slip fit), non flame ring	U5LP0046	4181A022	3135X032	U5MB0034	U5ME0034	T422292 T422291	U5MK0705
	LJ					Reconditioner (press fit), non flame ring	U5LP0046	4181A022	3135X031	U5MB0034	U5ME0034	T422292 T422291	U5MK0705K
		LF				In frame (slip fit), lip seal only, flame ring	U5LP0009	41158022	31358352	U5MB0034	85042	T422292 T422291	U5MK0706
		LF				Reconditioner (press fit), lip seal only, flame ring	U5LP0009	41158022	31358346	U5MB0034	85042	T422292 T422291	U5MK0706K
		LG				In frame (slip fit), lip seal only, non flame ring	68814	41158022	3135X034	U5MB0034	85042	T422292 T422291	U5MK0707
		LG				Reconditioner (press fit), lip seal only, non flame ring	68814	41158022	3135X033	U5MB0034	85042	T422292 T422291	U5MK0707K
			TU			Reconditioner (press fit)	68803	41158005	31358393	U5MB0030	U5ME0035	T422292 T422291	U5MK0711K
				AA		In frame (slip fit)	U5LL0015	4181A019	3135X042	U5MB0034	U5ME0034	T422292 T422291	U5MK0708
				AA		Reconditioner (press fit)	U5LL0015	4181A019	3135X041	U5MB0034	U5ME0034	T422292 T422291	U5MK0708K
				AB		In frame (slip fit)	U5LL0016	4181A026	3135X042	U5MB0034	U5ME0034	T422292 T422291	U5MK0709
				AB		Reconditioner (press fit)	U5LL0016	4181A026	3135X041	U5MB0034	U5ME0034	T422292 T422291	U5MK0709K
					YB	In frame (slip fit)	U5LL0016	4181A026	3135X042	U5MB0030	U5ME0035	T422292 T422291	U5MK0712
					YB	Reconditioner (press fit)	U5LL0016	4181A026	3135X041	U5MB0030	U5ME0035	T422292 T422291	U5MK0712K
					YA	In frame (slip fit)	U5LL0015	4181A019	3135X042	U5MB0030	85043	T422292 T422291	U5MK0714
					YA	Reconditioner (press fit)	U5LL0015	4181A019	3135X041	U5MB0030	85043	T422292 T422291	U5MK0714K

Complete overhaul kits

Complete overhaul kits are a comprehensive range of kits offering wide build list coverage for Perkins engines.

Ordering a kit under a single part number offers significant savings over piece parts and also ensures the correctly matched components are supplied for the engine.

Complete kits offer additional components for major overhaul.

Kit number	U5MK9141 & U5MK9141S	U5MK9201	U5MK9143 & U5MK9143S	U5MK9149	U5MK9203 & U5MK9203S	U5MK9197 & U5MK9197S	U5MK9204 & U5MK9204S	U5MK9198	U5MK9199	U5MK9207	U5MK9151	U5MK9209	U5MK9210	U5MK9211	U5MK9212
Engine model	D3.152	3.152	4.236	4.236	4.236	4.236	T4.236	G4.236	4.2482	6.3544	T6.3544	1004-4	1004-4	1004-4	1006-6
Build list prefix	CE	CD/CE	LD	LF	LD	LD	LJ	LE	LG	TW	TU	AA	AA/AG	AB/AC/AD/AH	YA
Big end bearing kit	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Bottom gasket kit	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Camshaft bush	•		•	•	•	•	•	•	•			•	•	•	•
Connecting rod nut	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Cylinder liner	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Front end oil seal	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Fuel filter element kit	•		•	•	•	•	•		•	•	•	•	•	•	•
Injector sealing washer											•				
Intake joint			•		•	•			•						
Leaflet													•	•	•
Main bearing kit	•		•	•	•	•	•	•	•	•	•	•	•	•	•
Manifold gasket							•		•						

Please note: The application guide above is intended as a guide. Not all build lists have a compatible complete overhaul kit offering. Please liaise with your Perkins distributor to identify.

† 'S' within the kit number denotes that kit does not contain an oil pump

Complete overhaul kits continued

Kit number	U5MK9141 & U5MK9141S	U5MK9201	U5MK9143 & U5MK9143S	U5MK9149	U5MK9203 & U5MK9203S	U5MK9197 & U5MK9197S	U5MK9204 & U5MK9204S	U5MK9198	U5MK9199	U5MK9207	U5MK9151	U5MK9209	U5MK9210	U5MK9211	U5MK9212
Engine model	D3.152	3.152	4.236	4.248	4.236	4.236	T4.236	G4.236	4.2482	6.3544	T6.3544	1004-4	1004-4	1004-4	1006-6
Build list prefix	CE	CD/CE	LD	LF	LD	LD	LJ	LE	LG	TW	TU	AA	AA/AG	AB/AC/AD/AH	YA
Oil cooler kit															•
Oil filter	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Oil pump	•†	•	•†	•	•†	•†	•†	•	•	•	•	•	•	•	•
Olive	•	•	•	•	•	•	•		•	•	•				
Piston kit	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Piston ring kit	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Rear end oil seal	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Rocker cover joint			•		•						•	•	•	•	•
Sealing washer	•	•	•	•	•	•	•		•		•				
Small end bush	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Sump joint												•	•	•	•
Thrust washer	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Timing case cover joint															•
Top gasket kit	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Valve cap										•					
Valve exhaust	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Valve guide	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Valve inlet	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Valve stem seal			•	•	•	•	•	•	•	•	•				
Washer	•		•	•	•	•	•		•	•					

Please note: The application guide above is intended as a guide. Not all build lists have a compatible complete overhaul kit offering. Please liaise with your Perkins distributor to identify.

† 'S' within the kit number denotes that kit does not contain an oil pump

Replacement engines

Perkins replacement engines will revitalise your machine, delivering greater value from your investment.

By replacing your older engine with a like-for-like equivalent, you can now extend the life of your machine like never before.

Our full range of replacement engine solutions helps to drive greater value for your business and to significantly improve your return on investment, all at a fraction of the cost of buying a new machine.

Drive greater value with Perkins replacement engine solutions:

- Replacement and remanufactured engine options for every need and budget
- Like-for-like engine performance at a fraction of the cost of a new machine
- Streamlined service and availability
- Better machine lifecycle management
- Minimal downtime following in-field failures
- Core engine tracking and refunds to meet emissions standards
- A more environmentally-friendly solution

“Perkins is the only manufacturer with a **full range replacement engine programme**. Not only does this give customers a **cost-effective alternative** to buying new or trying to repair, but it demonstrates how Perkins supports the **entire lifecycle** of their equipment.”

Darin Schultz, sales manager, Perkins Pacific
(appointed distributor in the US)



A complete range of replacement engine options

New Complete Replacement



Perkins now offers off-the-shelf, new complete replacement engines on select models (with a minimum 12 months' warranty) as a drop-in solution that helps you to meet emissions standards, minimise downtime and reduce labour costs.

New Short Blocks and Remanufactured Short Blocks



Our new short blocks are an economical repair option with minimal downtime, delivering a fast, dependable solution for major seizures on most types of Perkins engine. Our remanufactured short block options are also built to the same high specifications as new, with the same guaranteed quality and warranty but at a fraction of the price if you exchange your original part.

New Long Blocks and Remanufactured Long Blocks



As a cost-effective alternative to a complete replacement engine, our new long blocks are built to a design specification that provides flexibility and value when your machine needs to be re-powered. Simply add ancillaries to restore to full engine build and factory-standard engine performance, and benefit from full warranty by meeting emissions standards. Our remanufactured long block alternative options can offer even greater value through exchanging your original part.

New Complete Head



If the engine cylinder head has become warped or damaged but the rest of the engine is in good condition, our new complete head replacement solution provides a quick and highly cost-effective option to return an engine to full working order.

Maintenance schedules 3.152

A	B	C	D	E	F	G	H	I	Operation
•	•	•	•						Check the amount of coolant
•		•	•						Check the drive belt(s)
•	•								Check for water in the fuel pre-filter ⁽¹⁾
				•	•				Renew the fuel filter element(s)
						•		•	Ensure that the atomisers are checked ⁽²⁾
•									Ensure that the idle speed is checked and adjusted, if it is necessary ⁽²⁾
	•								Check the amount of lubricating oil in the sump
•	•								Check the lubricating oil pressure at the gauge ⁽¹⁾
•			•	•					Renew the lubricating oil ⁽³⁾
•			•	•					Renew the canister(s) of the lubricating oil filter
•	•								Clean the air cleaner or empty the dust bowl of the air filter (extremely dusty conditions)
•		•	•						Clean the air cleaner or empty the dust bowl of the air filter (normal conditions)
				•	•				Clean or renew the air filter element, if this has not been indicated earlier
							•	•	Ensure that the turbocharger impeller and turbocharger compressor casing are cleaned
		•	•						Clean the compressor air filter ⁽¹⁾
							•	•	Ensure that the exhauster or compressor ⁽¹⁾ is checked ⁽²⁾
•				•	•				Ensure that the tappet clearances are checked and adjusted, if it is necessary ⁽²⁾
							•	•	Inspect the electrical system for signs of damage ⁽²⁾

The schedules which follow must be applied at the interval (kilometres, miles, hours or months) which occurs first.

- A** First service at 25/50 hours (all engines)
- B** Every day or every 8 hours (all engines)
- C** Every 200 hours or 4 months (3.1524, T3.1524)
- D** Every 250 hours or 4 months (D3.152)
- E** Every 400 hours or 12 months (3.1524, T3.1524)
- F** Every 500 hours or 12 months (D3.152)
- G** Every 800 hours or 12 months (3.1524, T3.1524)
- H** Every 2,400 hours (3.1524, T3.1524)
- I** Every 2,500 hours (D3.152)

Sulphur content of fuel %	Oil change interval			
	Hours		Months	
	D3.152	3.152, T3.152	D3.152	3.152, T3.152
<0.5	250	400	4	6
0.5-1.0	190	300	3	4.5
>1.0	120	200	2	3

- ⁽¹⁾ If there is one fitted
- ⁽²⁾ Bay a person who has had the correct training
- ⁽³⁾ The oil change interval will change with the amount of sulphur in the fuel (see table above and 'fuel specification' on page 37)
- ⁽⁴⁾ The interval to change the canister of the lubricating oil filter is not affected

Maintenance schedules 4.236

The schedules which follow must be applied at the interval (kilometres, miles, hours or months) which occurs first.

- A** First service at 800/1,600 km (500/1,000 miles) 25/50 hours
- B** Every day or every 8 hours
- C** Every 7,500 km (5,000 miles) 250 hours or four months
- D** Every 15,000 km (10,000 miles) 500 hours or 12 months
- E** Every 90,000 km (60,000 miles) 2,500 hours

Sulphur content of fuel %	Oil change interval					
	Hours		Months		Miles	
	4.236, T4.236, 4.248	4.2482	4.236, T4.236, 4.248	4.2482	4.236, T4.236, 4.248	4.2482
<0.5	250	500	4	12	5,000	10,000
0.5-1.0	190	380	3	9	3,750	7,500
>1.0	120	250	2	6	2,500	5,000

⁽¹⁾ If there is one fitted

⁽²⁾ By a person who has had the correct training

⁽³⁾ 4.2482 engines, every 500 hours or 12 months

⁽⁴⁾ 4.2482 engines, every 1,000 hours

⁽⁵⁾ The oil change interval will change with the sulphur content of the fuel (see table above). The interval to change the canister of the lubricating oil filter is not affected by the sulphur content

A	B	C	D	E	Operation
●	●				Check the amount of coolant
●		●			Check the drive belt(s)
			●		Clean the sediment chamber and the strainer of the fuel lift pump
●	●				Check for water in the fuel pre-filter ⁽¹⁾
			●		Renew the fuel filter element(s)
				●	Ensure that the atomisers are checked ⁽²⁾
●					Ensure that the idle speed is checked and adjusted, if it is necessary ⁽²⁾
	●				Check the amount of lubricating oil in the sump
●	●				Check the lubricating oil pressure at the gauge ⁽¹⁾
●		●			Renew the lubricating oil ^{(3) (5)}
●		●			Renew the canister(s) of the lubricating oil filter
●	●				Clean the air cleaner or empty the dust bowl of the air filter (extremely dusty conditions)
		●			Clean the air cleaner or empty the dust bowl of the air filter (normal conditions)
			●		Clean or renew the air filter element, if this has not been indicated earlier ⁽⁴⁾
				●	Clean the vent valve of the engine breather system ⁽¹⁾
				●	Ensure that the turbocharger impeller and turbocharger compressor casing are cleaned
		●			Clean the compressor air filter ⁽¹⁾
				●	Ensure that the exhaustor or compressor ⁽¹⁾ is checked ⁽²⁾
●				●	Ensure that the valve tip clearances are checked and adjusted, if it is necessary ⁽²⁾
				●	Ensure that the alternator, starter motor etc. are checked ⁽²⁾

Maintenance schedules 6.354

A	B	C	D	E	F	Operation
•	•					Check the amount of coolant
•		•				Check the drive belt(s)
			•			Clean the sediment chamber and the strainer of the fuel lift pump
•	•					Check for water in the fuel pre-filter ⁽¹⁾
			•			Renew the fuel filter element (fuel filter with single element)
				•		Renew the fuel filter elements (fuel filter with twin element)
					•	Ensure that the atomisers are checked ⁽²⁾
•						Ensure that the idle speed is checked and adjusted, if it is necessary ⁽²⁾
	•					Check the amount of lubricating oil in the sump
•	•					Check the lubricating oil pressure at the gauge ⁽¹⁾
•		•				Renew the lubricating oil ⁽³⁾
•	•					Renew the canister(s) of the lubricating oil filter
					•	Clean the vent valve of the engine breather system ⁽¹⁾
•	•					Clean the air cleaner or empty the dust bowl of the air filter (extremely dusty conditions)
		•				Clean the air cleaner or empty the dust bowl of the air filter (normal conditions)
			•			Clean or renew the air filter element, if this has not been indicated earlier
				•		Ensure that the turbocharger impeller the turbocharger compressor casing and the turbocharger drain pipe for the lubricating oil are cleaned ⁽²⁾
		•				Clean the compressor air filter ⁽¹⁾
					•	Ensure that the exhauster or compressor ⁽¹⁾ is checked ⁽²⁾
•					•	Ensure that the valve tip clearances are checked and adjusted, if it is necessary ⁽²⁾
					•	Ensure that the alternator, starter motor etc. are checked ⁽²⁾

The schedules which follow must be applied at the interval (kilometres, miles, hours or months) which occurs first.

- A** First service at 800/1,600 km (500/1,000 miles), 25/50 hours
- B** Every day or every 8 hours
- C** Every 7,500 km (5,000 miles), 250 hours or four months
- D** Every 15,000 km (10,000 miles), 500 hours or 12 months
- E** Every 30,000 km (20,000 miles), 1,000 hours
- F** Every 90,000 km (60,000 miles), 2,500 hours

Sulphur content of fuel %	Oil change interval		
	Hours	Months	Miles
<0.5	250	4	5,000
0.5-1.0	190	3	3,750
>1.0	120	2	2,500

⁽¹⁾ If there is one fitted

⁽²⁾ By a person who has had the correct training

⁽³⁾ The oil change interval will change with the sulphur content of the fuel (see table above). The interval to change the canister of the lubricating oil filter is not affected by the sulphur content

Maintenance schedules 1000 Series

The schedules which follow must be applied at the interval (hours or months) which occurs first.

- A** First service at 20/40 hours
- B** Every day or every 8 hours
- C** Every 200 hours or six months
- D** Every 400 hours or 12 months
- E** Every 2,000 hours

⁽¹⁾ If one is fitted

⁽²⁾ Renew the antifreeze every two years. If a coolant inhibitor is used instead of antifreeze, it should be renewed every six months

⁽³⁾ By a person who has had the correct training.

⁽⁴⁾ The lubricating oil and the filter canister(s) must be renewed every 250 hours or 12 months for applications where the engine normally runs at full load for periods of more than 20 minutes, for example: generating sets or water pumps

⁽⁵⁾ The oil change interval will change with the amount of sulphur in the fuel. The interval to change the canister of the lubricating oil filter is not affected

⁽⁶⁾ The closed breather assemblies must be cleaned. The oil separator of the open breather assembly should not be cleaned, but must be renewed at every overhaul of the engine or 8,000 hours

A	B	C	D	E	Operation
●	●				Check the amount of coolant
			●		Check the concentration of the coolant ⁽²⁾
●		●			Check the tension and the condition of the drive belt
			●		Clean the sediment chamber and the strainer of the fuel lift pump
		●			Check for water in the pre-filter ⁽¹⁾ (or earlier if your fuel supply is contaminated)
			●		Renew the elements of the fuel filter(s)
				●	Ensure that the atomisers are checked ⁽³⁾
●					Ensure that the idle speed is checked and adjusted, if it is necessary ⁽³⁾
			●		Check Stanadyne fuel injection pump for governor operation ⁽³⁾
	●				Check the amount of lubricating oil in the sump
●	●				Check the lubricating oil pressure at the gauge ⁽¹⁾
●			●		Renew the engine lubricating oil ⁽⁴⁾⁽⁵⁾
●			●		Renew the canister(s) of the lubricating oil filter ⁽⁴⁾
●		●			Renew the canister of the lubricating oil filter (six cylinder naturally aspirated engines with a single filter canister)
				●	Clean the engine breather system ⁽⁶⁾
●	●				Clean the air cleaner or empty the dust bowl of the air filter (extremely dusty conditions)
		●			Clean the air cleaner or empty the dust bowl of the air filter (normal conditions)
			●		Clean or renew the air filter element, if this has not been indicated earlier
				●	Ensure that the turbocharger impeller the turbocharger compressor casing are cleaned ⁽³⁾
		●			Clean the compressor air filter ⁽¹⁾
				●	Ensure that the exhaustor or compressor ⁽¹⁾ is checked ⁽³⁾
●					Ensure that the valve tip clearances are checked and, if necessary, adjusted ⁽³⁾
●			●		Ensure that the valve tip clearances are checked and, if necessary, adjusted (high rated engines) ⁽³⁾
				●	Ensure that the alternator, starter motor etc. are checked ⁽²⁾

Bonnet badge

The much-loved bonnet badge that was so proudly displayed on thousands of pieces of Perkins powered equipment throughout the world during the 1950s, 1960s and 1970s.

Primarily designed to be attached to the machine to promote it is powered by Perkins, however the badge could also be used in a variety of other ways such as displaying in your company reception area, or on an office or workshop wall.

Comes individually wrapped and boxed, together with a card congratulating the owner on purchasing their own piece of Perkins heritage.

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Durable and strong made from cast zinc alloy, finished in polished chrome and measures 165mm x 165mm (6 1/2 in x 6 1/2 in).	T403678

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