

**PERKINS**

ENGINE	Bore	REF. NO.	Surface	Characters	PIN OD	PIN L	KH	GL	MT	MΦ	Material	Thickness
PERKINS77	76.93				21	55		65.5				2 1.5 3
403HH	77.000		SHINING	NONE	21.000	55.00		65.600		/		2 1.5 3
5101	80.000		SHINING	NONE	22.225	69.50		87.900		/		2.385 2.385 4.75 4.75
MF260	80.500		phospate& GRAPHITE	ALFIN	31.750	79.50		108.918		59.64		3.0K 2.38 2.0
MASSEY	80.962		SHINING	NONE	25.400	68.00		98.300		/		2 2 2 4 4
HP	84.000	115017491	skirt GRAPHITE	NONE	28.000	72.00		87.600		/		2 1.5 3
115017491	84				28	72.6		87.8				2 1.5 3
MF35	84.137		SHINING	NONE	28.575	71.40		98.300		/		2.385 2.385 2.385 4.747 4.747
7453	84.500		SHINING	NONE	22.225	74.50		87.200				2 2 2 4.8 4.8
S75972	85.000		SHINING	NONE	22.225	74.50		87.400				2 2 2 4.75 4.75
LISTERQ86	86				25	65		69	15.5	41.2		1.7 2 4
LISTER9525	86				25	64.8		69	15.5	41.2		1.7 2 4
PERKINS87.23	86.9				30	74		106	24.5	52		2.4 2.4 2.4
P3.144	88.925		SHINING	NONE	31.750	75.30		107.700		/		2.385 2.385 3.16 6.35 6.35
68332-F240	91.36				31.75	75.5		109.5	18.1	55.9		2.4 2.4 3.2 6.4 6.4
81512	91.38				31.75	75.5		108				2.4 2.4 2.4 6.4 6.4

**PERKINS**

ENGINE	Bore	REF. NO.	Surface	Characters	PIN OD	PIN L	KH	GL	MT	MΦ	Material	Thickness
L68.1030	91.38				31.75	75.5		109	18.3	59.8		2.4 2.4 3.5
89209-E145	91.38				31.75	75.5		109.3	19.4	59.7		2.4 2.4 2.4 4.8
	91.4				31.75	75		100				2.4 2.4 4.8
MF135	91.480		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	31.750	75.30		100.000		55.85		2.385 2.385 4.75
P3.152	91.480	MAHLE: 0432200	SHINING	NONE	31.75	75.30		107.700		/		2.385 2.385 3.16 6.35 6.35
3.152	91.480	81512	SHINING	NONE	31.750	75.30		107.700		/		2.385 2.385 3.16 6.335 6.335
P3.152	91.480	81512	SHINING	NONE	31.750	75.30		108.100		/		2.385 2.385 3.16 6.335 6.335
MF260	91.480	3135F051	PHOSPHATE& GRAPHITE	ALFIN	31.750	79.50		108.918		59.64		3.0K 2.38 3.5
AD3.152	91.480		PHOSPHATE& GRAPHITE	ALFIN	31.750	75.30		109.540		59.80		2.385 2.385 3.16 6.35 6.35
AD3.152	91.480		PHOSPHATE& GRAPHITE	ALFIN	31.750	75.30		109.540		59.80		2.385 2.385 3.16 6.35 6.35
AD3.152	91.480		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	31.750	75.30		109.540		55.85		2.385 2.385 3.16 6.35 6.35
D3.152	91.480		SHINING	STEEL IN	31.750	75.30		109.540		55.85		2.385 2.385 2.385 6.35 6.35
D3.152	91.480	68332 MAHLE:0432400	SHINING	NONE	31.750	75.30		109.540		55.85		2.385 2.385 3.16 6.335 6.335
D4.203 ( flat )	91.480	68332-82111	skirt GRAPHITE	ALFIN	31.750	75.30		109.540		59.80		2.385 2.385 3.16 6.35 6.35

**PERKINS**

ENGINE	Bore	REF. NO.	Surface	Characters	PIN OD	PIN L	KH	GL	MT	MΦ	Material	Thickness
D4.203 (poiNted)	91.480	68332-82111	skirt GRAPHITE	ALFIN	31.750	75.30		109.540		55.80		2.385 2.385 3.16 6.35 6.35
MF260	91.480	3135F051	PHOSPHATE& GRAPHITE	ALFIN STEEL IN	31.750	75.30		109.540		65.70		3.0K 2.385 3.5
MF240	91.480		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	31.750	75.30		109.540		59.80		2.385 2.385 2.385 4.75
MF240	91.480		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	31.750	75.30		109.540		59.80		2.385 2.385 2.385 4.75
MF240	91.480	89214	SHINING	STEEL IN	31.750	75.30		109.540		59.80		2.385 2.385 2.385 4.75
D3.152	91.480		SHINING	ALFIN	31.750	75.30		109.540		55.85		2.385 2.385 3.16 6.335 6.335
3.152	91.480		SHINING	STEEL IN	31.750	75.30		109.540		59.80		2.385 2.385 3.16 6.35 6.35
3.152	91.480		SHINING	STEEL IN	31.750	75.30		109.540		59.80		2.385 2.385 3.16 6.35 6.35
MF240	91.480	89214	SHINING	NONE	31.750	75.30		109.540		59.80		2.385 2.385 2.385 4.75
D3.152	91.480	31354617/ 68332F4F	SHINING	NONE	31.000	75.00		109.540		55.85		2.385 2.385 3.16 6.335 6.335
MF260	91.480		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		108.918		61.40		2.85K 2.385 4.75
MF260	91.480		PHOSPHATE& GRAPHITE	STEEL IN	34.920	84.10		108.918		61.40		2.85K 2.385 4.75
D3.152	91.480		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	31.750	75.30		109.540		55.85		
MF260	91.480		PHOSPHATE& GRAPHITE	ALFIN	31.750	39.50		108.800		65.00		3.0K 2.39 2.4 4.75
D3.152	91.480		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	31.750	75.30		109.540		55.85		2.385 2.38 3.16 6.35 6.35

PERKINS

ENGINE	Bore	REF. NO.	Surface	Characters	PIN OD	PIN L	KH	GL	MT	MΦ	Material	Thickness
MF240	91.480		SHINING	STEEL IN	31.750	75.30		109.540		59.80		2.85 2.385 2.385 4.75
903.27T	91.480	87-881000-12										
D3.152	91.480		SHINING	STEEL IN	31.750	75.30		109.540		55.85		2.385 2.385 3.16 6.35 6.35
MF240 MF135 D4	91.49				31.75	75		109.4				2.4 2.4 3.2 6.4 6.4
MF240-1	91.49	U 型燃烧室			31.75	75		109.4				2.4 2.4 3.2 6.4 6.4
Q04	91.500		SHINING	ALFIN	31.750	75.50		99.900		45.30		2.385 2.385 4.75
3135F241	94.92				31.7	74.8		99.8	20.6	50		2.5 2 4
AT3.1524	95.000	87-322000-02										
31354812	98.32				34.925	84		127.4	19.2	59.8		2.4 2.4 2.4 6.4
68301-4R	98.33				34.925	84.3		121.5	20.7	61		2.4 2.4 2.4 6.4
4.236-LNG	98.33				34.925	84.3		121.5	20.7	61		2.4 2.4 2.4 6.7
82878	98.35				34.93	84		121	20.4	61		2.4 2.4 2.4 6.4 6.4
31354357	98.38				34.94	84		121	20.4	61		2.4 2.4 2.4 6.4 6.4
U5LL0022	98.4				38.1	83		108.4	20	61		K2.65 2.4 4.7
8504	98.425		SHINING	ALFIN	36.000	82.00		107.000		56.10		3.16K 2.385 4.75
T4.236	98.480	U5LP0022 KS NO:09800652 AE NO:31355106	PHOSPHATE& GRAPHITE	ALFIN	38.100	82.50		108.250		61.40		3.16K 2.385 4.747

**PERKINS**

ENGINE	Bore	REF. NO.	Surface	Characters	PIN OD	PIN L	KH	GL	MT	MΦ	Material	Thickness
6.354	98.480	86740	SHINING	NONE	34.920	84.10		120.700		54.00		2.385 2.385 2.385 6.35 6.35
AD4.236	98.480		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.900		61.00		2.385 2.385 2.385 6.35 6.35
4.236	98.480		SHINING	NONE	34.925	84.00		120.900		61.00		2.44 2.44 2.44 6.43 6.43
A4.236	98.480		SHINING	STEEL IN	34.920	84.10		120.900		61.00		2.385 2.385 2.385 6.35 6.35
A4.236	98.480		SHINING	STEEL IN	34.920	84.10		120.900		61.00		2.385 2.385 2.385 6.35 6.35
D39C	98.480	82878	SHINING	NONE	34.920	84.10		120.900		60.50		2.385 2.385 2.385 6.35 6.35
D39C	98.480		SHINING	ALFIN	34.920	84.10		120.900		61.00		2.385 2.385 2.385 6.35 6.35
D39C	98.480	68301	SHINING	NONE	34.920	84.10		120.900		61.00		2.385 2.385 2.385 6.35 6.35
4.236EBRO	98.480		SHINING	NONE	34.920	84.10		120.900		60.50		2.385 2.385 2.385 6.35 6.35
4.236	98.480		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.925	84.10		121.410		61.00		2.385 2.385 4.747
AD4.236	98.480	68301	SHINING	NONE	34.920	84.10		121.480		/		2.385 2.385 2.385 6.35 6.35
4.212	98.480	86721	SHINING	NONE	34.920	84.10		127.300		59.30		2.385 2.385 2.385 6.335
4.236	98.480		TINNED	NONE	34.920	84.10		121.000		61.00		2.385 2.385 2.385 6.335 6.335

**PERKINS**

ENGINE	Bore	REF. NO.	Surface	Characters	PIN OD	PIN L	KH	GL	MT	MΦ	Material	Thickness
AD4.236	98.480		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.900		61.00		2.385 2.385 2.385 6.35
AD4.236	98.480		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.900		61.00		2.385 2.385 2.385 6.35
6.354	98.480		PHOSPHATE& GRAPHITE	NONE	34.920	84.10		120.710		53.90		2.385 2.385 2.385 6.335 6.335
31354356	98.48				34.94	84		121.3	20.9	60.3		2.4 2.4 2.4 6.4
AD 4.236	98.48				34.925	84		120.9				2.39 2.39 2.39 6.34 6.34
U5LL0014	99.85				38.1	83.1		108				3.07 2.5 4
T73007001	99.91				43	78.2		106.3	20.1	57		K1.79 2.5 4
T624001002AC	99.91				43	78.2		106.3	20.1	57		K1.79 2.5 4
3135J259	99.91				38	83.1		108.2				K3.07 2.5 4
135J258	99.92				38.11	83		108.2				3.07 2.5 4
3135J186A	99.92				39.7	78		108.2	21.6	52.8		K3.07 2.5 4
U5LL0015	99.92				34.94	84.5		108	20	55.5		2.5 2.5 4
T62401006	99.94				39.7	78		108.2	19	55.8		K3.07 2.5 4
3135J186L	99.95				39.7	78		108.2	21.6	52.8		K3.07 2.5 4
BH509	100.000	U5LL0015	PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		108.000		56.00		2.5 2.5 4
BH509	100.000		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	38.100	82.50		108.000		66.0/56.0		3.5K 2.5 4
T4.40	100.000	U5LL0014 350770	PHOSPHATE& GRAPHITE	ALFIN STEEL IN	38.100	82.50		108.020		55.80		3.5K 2.5 4
4.4	100.000	350769	PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		108.020		55.30		2.5 2.5 4
Phaser90	100.000	U5LL0015 AE NO:3135J142 3638989M91	TINNED	ALFIN STEEL IN	34.920	84.10		108.020		55.30		2.5 2.5 4

**PERKINS**

ENGINE	Bore	REF. NO.	Surface	Characters	PIN OD	PIN L	KH	GL	MT	MΦ	Material	Thickness
Phaser1004-47	100.000	U5LL0014 3640593M91	PHOSPHATE& GRAPHITE	ALFIN STEEL IN	38.100	82.50		108.020		57.00		3.5K 2.5 4
T4.40	100.000		PHOSPHATE& GRAPHITE	ALFIN	39.700	78.00		108.130		52.80		3.5K 2.5 4
T4.40	100.000	TV1211	PHOSPHATE& GRAPHITE	ALFIN	39.700	78.00		108.130		66.5/56.6		3.5K 2.5 4
T4.40	100.000		PHOSPHATE& GRAPHITE	ALFIN	39.700	78.00		108.230		52.80		3.5K 2.5 4
T4.40	100.000	94543600	PHOSPHATE& GRAPHITE	ALFIN	39.700	78.00		108.230		53.00		3.5K 2.5 4
T4.4 T6.6	100				38.1	82.7		108.2				3.5DK T6 2.5 4.0
T4.4 T6.6	100				39.7	78		108.2				3.5DK T6 2.5 4.0
9100	100.050		SHINING	NONE	31.750	87.00		105.500		58.80		2.385 2.385 2.385 4.75
4092-5R	100.88				34.925	84		120.8	20.7	61.5		2.4 2.4 2.4 6.4 6.4
100.93NV2008	101				35	76.5		108.5	21	61.5		K2.58 2.5 4
MF285	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		108.100		61.40		2.5 2.5 5
4.248	101.054	89207	TINNED	NONE	34.920	84.10		120.720		61.30		2.385 2.385 2.385 6.335
4.248	101.054	U5LP0009 747050M91	SHINING	STEEL IN	34.920	84.10		120.900		61.30		2.5 2.5 5
A4.248	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.900		61.30		2.385 2.385 2.385 6.335
A4.248	101.054		SHINING	STEEL IN	34.920	84.10		120.900		61.30		2.385 2.385 2.385 6.335
A4.248	101.054		SHINING	STEEL IN	34.920	84.10		120.900		61.30		2.385 2.385 2.385 6.335
A4.248	101.054		GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.900		61.30		2.5 2.5 5
A4.248	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.900		61.30		2.5 2.5 5

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ENGINE	Bore	REF. NO.	Surface	Characters	PIN OD	PIN L	KH	GL	MT	MΦ	Material	Thickness
A4.248	101.054		GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.900		/		2.385 2.385 2.385 6.335
A4.248	101.054		GRAPHITE	STEEL IN	34.920	84.10		120.900		61.30		2.5 2.5 5
MF385	101.054	89207	SHINING	ALFIN STEEL IN	34.920	84.10		120.900		61.30		2.5 2.385 2.385 6.335 6.335
MF385	101.054		SHINING	ALFIN STEEL IN	34.920	84.10		120.900		61.30		2.5 2.385 2.385 6.335 6.335
4.248	101.054	80-3604-00	TINNED	NONE	34.920	84.10		121.000		61.50		2.5 2.385 2.385 6.335
4.248	101.054	MAHLE: 0433010 89027	SHINING	STEEL IN	34.920	84.10		121.000		61.30		2.5 2.385 2.385 6.335
4.248	101.054	MAHLE:0437100 89207	SHINING	STEEL IN	34.920	84.10		121.100		61.45		2.5 2.5 5
MF285	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		121.100		61.50		2.5 2.5 5
A4.248	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.900		61.30		2.385 2.385 2.385 6.335
A4.248	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.900		61.30		2.385 2.385 2.385 6.335
MF385	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		121.100		61.45		2.85K 2.5 5
MF385	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		121.100		61.45		2.85K 2.5 5
MF385	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.700		61.40		2.385 2.385 2.385 6.335
MF385	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.700		61.40		2.385 2.385 2.385 6.335
4.248	101.054		SHINING	STEEL IN	34.920	84.10		121.100		61.45		2.5 2.5 5
4.248	101.060	043 7100	SHINING	NONE	34.920	84.00		121.000		61.40		2.5 2.5 5
M101	101.067		SHINING	STEEL IN	34.920	84.10		120.950		61.40		2.5 2.5 5



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ENGINE	Bore	REF. NO.	Surface	Characters	PIN OD	PIN L	KH	GL	MT	MΦ	Material	Thickness
MF440	101.067		PHOSPHATE& GRAPHITE	ALFIN	34.920	77.00		108.600		61.40		3.0HK 2.5 4
U5LL0009	101.08				34.925	84.3		121	21	62.4		2.4 2.4 2.4
4092-4R	101.08				34.925	84.3		121	21	62.4		2.4 2.4 2.4 6.3
4092-4R	101.8			STEEL IN	34.925	84.3		121	21	62.4		2.4 2.4 2.4 6.3
JCB103	102.88				40	85.5		109.2	23.5	48.4		T2.53 2.5 4
U5LP0058	103				39.7	74		108.5	21.8	52.3		2.6 2.5 3
1103B	105.000	87-880800-12										
1004.42	105.000	87-893700-12										
D-J	105.000	4115P011	PHOSPHATE& GRAPHITE	ALFIN	39.710	70.00		108.000		51.40		2.5 2.5 3.5
D-J	105.000	4115P015	PHOSPHATE& GRAPHITE	ALFIN	39.700	78.00		108.100		55.30		3.5K 2.5 3.5
MF420	105.000		PHOSPHATE& GRAPHITE	ALFIN	39.700	78.00		108.100		56.60		3.5K 2.5 3.5
D-J	105.000		PHOSPHATE& GRAPHITE	ALFIN	39.700	78.00		108.100		55.30		3.5K 2.5 3.5
D-J	105.000		GRAPHITE	ALFIN	39.700	78.00		108.100		50.00		2.8K 2.5 3.0
06C-1	105.000	3707998/3707997	GRAPHITE	ALFIN	39.700	78.00		104.150		56.60		2.8K 2.5 3.0
06C-2	105.000		GRAPHITE	ALFIN	39.700	78.00		104.150		76.60		2.8K 2.5 3.0
1106D-1	105.000	3135M135	GRAPHITE	ALFIN OIL GALLERY	39.700	86.00		108.050		79.60		2.8K 2.5 3.0
1106D-2	105.000		GRAPHITE	ALFIN	39.700	86.00		108.500		79.60		2.8K 2.5 3.0
3135M105	105				39.7	70		108	22	51.4		2.5 2.5 3.5
3135M111	105				39.7	78		108	22	52		2.5 2.5 3.5
3135M121	105				39.7	78		108	22.4	56.6		K2.3 2.5 3.5

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ENGINE	Bore	REF. NO.	Surface	Characters	PIN OD	PIN L	KH	GL	MT	MΦ	Material	Thickness
3135M1005	105				39.7	70		108	22	51.3		K1.85 2.5 3
3707998	105				39.7	78		104.2	22.4	56.5		K1.85 2.5 3
4505996	105				39.7	86.5		104.2	15.6	76.6		K1.85 2.5 3
3135M141	105				39.7	86.5		108	14.5	77		K1.78 2.5 3
3135M161	105				39.7	78		108	22.8	50		K1.8 2.5 3
1103A-33T 1104A-44T	105				39.71	78		108				3.5DK T15 2.5 3.5
JCB106	106				40	85.5		107.3	23	51		K1.79 2.5 4
1300E	116.500		GRAPHITE	ALFIN STEEL IN	46.360	96.60		127.400		73.80		3.5K 3 4
130MM	130				50.8	109		165	26.4	75.8		K1.79 3.3 4.8
MF240	101.054		phospate&GRAPHITE	ALFIN STEEL IN	34.920	84.10		108.1		61.40		2.5 2.5 5
MF385	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.9				2.385 2.385 6.335
MF285	101.054		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		121.1				2.5 2.5 5
4.248	101.06	043 7100	SHINING	NONE	94.920	84.00		121		61.40		2.5 2.5 5
Gen	102.955		GRAPHITE	NONE	39.700	74.00		108.3		51.90		2.8 2.5 3.5
MF260	91.48		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	31.750	79.50		108.918		59.64		3.0K 2.38 3.5
D3.152	91.48		SHINING	NONE	31.750	75.30		109.35				
MF375	98.48		PHOSPHATE& GRAPHITE	ALFIN STEEL IN	34.920	84.10		120.9		61.00		2.385 2.385 6.35
A4.248												
4.41		3135M101ETC										
MF240												

**PERKINS**

ENGINE	Bore	REF. NO.	Surface	Characters	PIN OD	PIN L	KH	GL	MT	MΦ	Material	Thickness
PHASER90												
4.248			SHINING									

