



Engine Make:	Engine Model:	Part Number:
TOYOTA	4A-GE 16v (shim under bucket)	193HV-B
Valve Clearance:	Intake: 0.25mm Set COLD at the CAM	Exhaust: 0.30mm Set COLD at the CAM
Cam Lift:	Intake: 10.75mm	Exhaust: 10.55mm
Rocker Ratio:	Intake: 1	Exhaust: 1
Nett Valve Lift:	Intake: 10.50mm	Exhaust: 10.25mm
Advertised Duration @ 0.30mm	Intake: 300	Exhaust: 294
Duration @ 1.00mm VALVE LIFT	Intake: 258	Exhaust: 248
Timing @ 1.00mm VALVE LIFT	IVO: 30 BTDC	EVO 47 BBDC
	IVC: 48 ABDC	EVC 21 ATDC
	Intake: 99 ATDC	Exhaust: 103 BTDC
	Intake: 4.22mm	Exhaust: 3.32

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