



Engine Make:	Engine Model:	Part Number:
TOYOTA	4A-GE 16v (shim under bucket)	193HV-A
Valve Clearance:	Intake: 0.25mm Set COLD at the CAM	Exhaust: 0.30mm Set COLD at the CAM
Cam Lift:	Intake: 10.55mm	Exhaust: 10.40mm
Rocker Ratio:	Intake: 1	Exhaust: 1
Nett Valve Lift:	Intake: 10.30mm	Exhaust: 10.10mm
Advertised Duration @ 0.30mm	Intake: 290	Exhaust: 282
Duration @ 1.00mm VALVE LIFT	Intake: 248	Exhaust: 240
Timing @ 1.00mm VALVE LIFT	IVO: 25 BTDC	EVO 45 BBDC
	IVC: 43 ABDC	EVC 15 ATDC
	Intake: 99 ATDC	Exhaust: 105 BTDC
	Intake: 3.60mm	Exhaust: 2.53

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