

# TAM QUICK ENGINE SPECIFICATION

specs\_cat\_1404.xlsx

Caterpillar 1404 (Hercules)				
BORE	STROKE	FIRING ORDER	MAIN JOURNAL	ROD JOURNAL
4		1-3-4-2	2.2485	1.9987
DISTRIBUTOR GAP	SPARK PLUG GAP	IGN.TIMING Gas	IGN.TIMING LPG	OIL CAPACITY WITH FILTER
0.008	0.035	6 deg.BTDC/625	14 deg.BTDC/625	
TORQUE VALUES				
LOCATION	FT. LB.		LOCATION	FT. LB.
Main brg.caps	60		Oil pan drain plug	32
Rod brg.caps	33		Oil pump bolt	
Cyl. head bolts	65		Rocker arm nut	35-40
Cam sprocket bolt	53		Rckr.shaft brckt.bolt	
Crank pulley bolt	140		Timing cover	3.5-4
Flywheel bolt	80		Spark plug	26
Flywheel housing	40-45		Water outlet bolt	
Manifold bolt and nut			Water pump bolt	
Oil pan bolt	6(9-12) 12(3-4)		Wtr.pmp.pulley bolt	
PISTON				
Pin diameter	.9750-.9752			
RINGS				
Ring gap-Top	.010-.020		Side clearance Top	.0025-.003
Ring gap-2nd	.010-.020		Side clearance 2nd	0.003
Ring gap-Oil	.015-.055		Side clearance Oil	0.005
CRANKSHAFT				
Main journal dia.	2.2477-2.2485		Rod journal dia.	1.9979-1.9987
Main run clearance	.0009-.0035		Rod run clearance	.001-.003
End play	.004-.009			
CAMSHAFT				
Journal diameter	2.009-2.010		End play	.003-.007
VALVES				
Intake length	4.4		Exhaust length	4.4
Intake stem dia.	0.3102		Exhaust stem dia.	0.3093
Intake head dia.	1.81		Exhaust head dia.	1.55
Intake face angle	30 deg.		Exhaust face angle	30 deg.
Intake clearance	.015 hot		Exhaust clearance	.025 hot