

PART NUMBER 12491355 - 454 REMANUFACTURED (1996-2000)

RPO	L29	VALVE SYSTEM	
GENERAL (STOCK CONFIGURATION)		Type	OHV
Liter Displacement	7.4	Lifters	New - hydraulic roller
Cubic Inch Displacement	454	Valve Rotators	Intake/exhaust
Bore (inches/mm)	4.25/107.95	Pushrods	3/8" tubular steel (all years)
Stroke (inches/mm)	4.00/101.60	Rocker Arm Ratio	1.7:1
Compression Ratio	8.9:1	VALVES	
Firing Order	1-8-4-3-6-5-7-2	Intake Valve Material	New - S.B. International
Cylinder Head Material	Cast iron	Intake Face Angle (degrees)	45
Block Material	Cast iron	Intake Guides	Integral/reamed for oversize valve stem
Main Bearing Cap Design	4-bolt	Intake Head Diameter (inches)	2.065
Horsepower	290	Intake Lift (inches)	0.48000
BLOCK		Intake Duration (degrees)	204
Core Plug Material	Brass	Exhaust Valve Material	New - GM Inconel
Cylinder Bore Remanufacturing	Cylinders bored oversize (.030" Max.) Honed to match ring set	Exhaust Face Coating	Hard faced
CAMSHAFT		Exhaust Face Angle (degrees)	45
Material	Steel	Exhaust Guides	Press-in/reamed for oversize valve stem
Camshaft Type	Roller lifter	Exhaust Head Diameter (inches)	1.72
Camshaft Remanufacturing	Qualified and polished to meet OE specs	Exhaust Lift (inches)	0.48300
Cam Bearings	New - bored to OE spec	Exhaust Duration (degrees)	209
Number of Bearings	5	OIL PUMP	
Type of Drive	Single-row roller chain	Type	New - Melling assembly (with screen)
CRANKSHAFT		Oil Pressure	Stock
Material	Cast nodular iron	Volume	Stock
Crankshaft Remanufacturing	Ground undersize (.020" Max.) protecting undercut fillets for maximum strength/micro-polished	NOTES	
Main Bearings	Federal Mogul	Camshaft for engine 12491355 is 12552296.	
Number of Bearings	5	Customer must transfer oil pan and valve covers from old engine or purchase new.	
Rear Main Seal	1 pc.		
CONNECTING RODS			
Material	Forged steel		
Connecting Rod Remanufacturing	Bores and beam gauged/big-end resized if necessary		
Length (center to center, inches)	6.135 (stock)		
Rod Bearings	Federal Mogul		
PISTONS			
Material	Graphite-coated hypereutectic		
PISTON RINGS			
Material	Federal Mogul ("Premium Rings")		