

## Lubrication & Seal Points

Engine	Location	Material	Remarks
	Hydraulic tappet hole Camshaft holder de-foaming chamber Cam chain/alternator chain Transmission gear teeth and bushings Piston pin hole and outer surface Piston pin outer surface Each bearings Piston ring sliding surface Piston ring and ring groove Cylinder sliding surface Alternator shaft damper cam Clutch lifter Shift fork claw and pivot inner surface Shift drum O-rings Clutch discs	Engine oil	
	Rocker arm slipper surface and pivot inner surface Camshaft lobe and journal Connecting rod small end Valve stem (valve guide sliding surface) Valve guide (valve stem sliding surface) Transmission gear shift fork grooves Crankshaft bearing sliding surface Connecting rod bearing sliding surface Crankshaft thrust sliding surface Primary driven gear	Molybdenum disulfide oil (a mixture of 1/2 engine oil and 1/2 molybdenum disulfide grease)	
	Hydraulic tappet	Kerosene	
	Upper crankcase mating surface – countershaft bearing cover mating surface – clutch cover mating surface Cylinder head/cylinder head cover gasket surface	Liquid sealant	Do not apply sealant to the main journal bearings.