

## **OIL: (filter, pump)**

### **sump filter**

- black plastic bits – front cam chain guide worn and damaged
- large metal pieces – gear dogs from 5th main and 3rd pinion gear, broken gear teeth, bearing cages
- aluminium – piston holed, piston skirts, clutch basket tongues, kick start spring anchor, casing pieces, worn front cam chain guide
- dirt from clutch friction plates
- copper from crank washers
- petrol from flooding carbs
- filter ruptures from oil return or acceleration while cold oil is too thick

### **side filter**

- find same things in the filter only smaller size

- oil filter reading [here](#)

## **Oil Pump**

### **low pressure**

- filters blocked
- pump rotor worn
- oil passages dirty or blocked

### **no delivery**

- no oil
- filters blocked
- pump drive gear broken
- shaft broken
- rotor assembly broken or damaged
- oil passage blocked
- restrictor blocked

- category: [oil](#)

### **oil leaks**

- crank seal - behind the alternator
- clutch push [rod bush and seal](#), scroll down - replace short rods with a long one
- drive shaft seal - behind front sprocket, often only needs the nut tightening
- engine base - may actually be migrating from the front pipe or cam chain tensioner nut
- head gasket - often resulting from lack of head nut torque control
- crankcase breather - too much oil, worn rings
- cases - unclean or marked surfaces, torn gasket
- fork seals