

**Disassembly and Assembly
3408E & 3412E INDUSTRIAL ENGINES**

Media Number -SENR1063-02

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SENR10630019

Crankshaft Front Seal & Wear Sleeve

SMCS - 1160-011; 1160-012

Remove Crankshaft Front Seal & Wear Sleeve

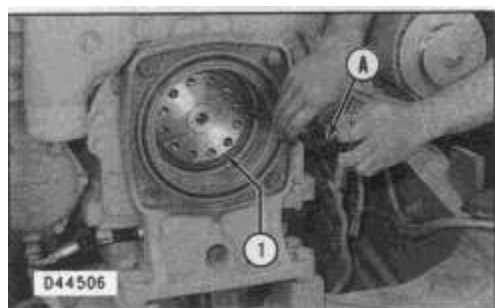
Tools Needed		A	B	C
1P-3075	Puller Assembly	1		
5P-7314	Ring		1	
5P-7312	Distorter			1

Start By:

- a. remove crankshaft vibration damper

Fluid Spillage Containment

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the machine. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids. Refer to "Tools And Shop Products Guide", NENG2500 for tools and supplies suitable to collect and contain fluids in Caterpillar machines. Dispose of fluids according to local regulations and mandates.



Typical Example