



Shutdown SIS

Previous Screen

< Product: NO EQUIPMENT SELECTED
Model: NO EQUIPMENT SELECTED
Configuration: NO EQUIPMENT SELECTED

Reuse And Salvage Guidelines

Inspection and Measuring Procedures for Piston Pins{1214}

Media Number -SEBF8051-05

Publication Date -12/04/2006

Date Updated -17/04/2006

i02517767

Inspection and Measuring Procedures for Piston Pins{1214}

SMCS - 1214

Engine:Commercial All**3044C (S/N: 3441-UP)****Engine:Truck All****Machine Engines: All****Marine Engine:with Turbochargers All****Industrial Engine:with Turbochargers All**

Introduction

This guideline enables dealers and customers to benefit from cost reductions that are made possible by reusing parts and salvaging parts. Every effort has been made in order to provide the most current and accurate information that is known to Caterpillar Inc. Since Caterpillar makes ongoing changes and improvements to Caterpillar products, this guideline can be used with the latest technical information that is available from Caterpillar in order to ensure that such changes and improvements are incorporated.

For additional information about this guideline, consult Repair Process Engineering of the Marketing & Product Support Division at 1 (309) 675-5434.

Summary

This guideline provides procedures for visual inspection of piston pins. The information that is given in this guideline can be used to determine if a piston pin can be used again. If a piston pin meets the specifications, the pin can be expected to give normal performance until the next overhaul, when the pin will be used again in the same application.

There are two types of piston pins. One type of pin is a straight pin. The other type of pin has ends in the shape of a barrel.

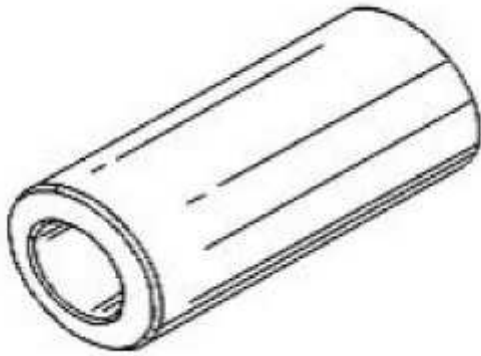


Illustration 1
Straight piston pin

g01248028

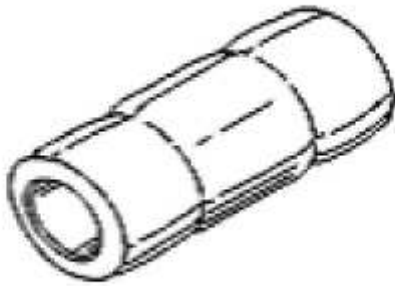


Illustration 2
Piston pin with barrel shaped ends.

g01259815

References

ReferenceService Magazine, SEBD1205

ReferenceReuse and Salvage Guidelines, SEBF8049, "Piston Visual Inspection"

ReferenceGuideline for Reusable Parts and Salvage Operations, SEBF8059, "Procedure to Clean and Measure Pistons"

ReferenceGuideline for Reusable Parts and Salvage Operations, SEBF8821, "Procedure to Clean and Inspect Two-Piece Pistons in 3054 and 3056 Engines"

ReferenceGuideline for Reusable Parts and Salvage Operations, SEBF8228, "Procedure to Clean

Full download: <http://manualplace.com/download/caterpillar-piston-pins-service-training/>

and Inspect One and Two-Piece Pistons in 3114 and 3116 Engines"

ReferenceGuideline for Reusable Parts and Salvage Operations, SEBF8259, "Procedure to Clean and Inspect Two-Piece Pistons in Series 3176 Engines"

ReferenceGuideline for Reusable Parts and Salvage Operations, SEBF8739, "Procedure to Clean and Inspect Two-Piece Pistons in Series 3176 Engines"

ReferenceGuideline for Reusable Parts and Salvage Operations, SEBF8265, "Procedure to Clean and Inspect One and Two-Piece Pistons in Series 3406E Engines"

Required Tooling

Table 1

Part Number	Part Description
--	Grinder
6V-2032	Adapter
8S-2257	Eye Loupe As
8T-7748	Deburring Wheel
3P-1568	Dial Indicator
6V-6167	Contact Point
8S-2328	Dial Indicator Gp

Piston Pins that are Reusable

A piston pin can usually be used again if the following specifications are met.

- The piston pin has no signs of scratches, grooves, or nicks.
- The piston pin has no indication of smearing or metal transfer.
- The surface finish is 0.125 micrometer (5.0000 microinch).
- The piston pin has no wear steps that are larger than 0.005 mm (0.0002 inch).