

800-736-8261 209 632-2345 Fax 209-632-1740 www.locknstitch.com

Final Repor

Date <u>10-16-12</u>

Part 302 B Crank Case

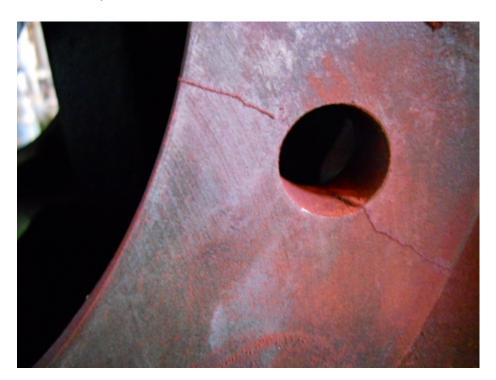
Inspected by Edward Mulvihill

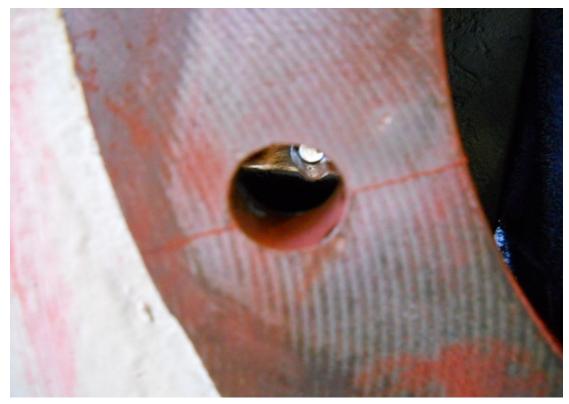
1.	Base metal X cast iron □ ductile iron cast steel □ cast aluminum □ other	 4. Cause of damage □ impact heat □ freezing X normal operation □ other
2.	Machinability X no previous repairs arc-welded □ brazed	5. Length of crack/s <u>7"</u>
	□ heat-related cracks□ other	 Material thickness 1 1/2"
3.	Casting shape where cracked X flat □ inside/outside corner radius □ other	7. Operating pressure N/A

8. Operating temperature N/A	11. Customer's needsX permanent repair□ temporary repair□ turnaround timedescribe:
9. Working environment	
□ hot X cold	other
X safety concerns describe: H2S	
	12. Accessibility
other	X room for the tools
	X room for the operator/s
10. Remachining requirements	□ need for disassembly? describe:
X bolt holes	
□ bearing bores	
□ machined surfaces	□ other
other <u>Grinding</u>	
13. Inspection method(s) <u>Mag check</u>	
14. Damage found:7" of crack and 3 bolt holes	

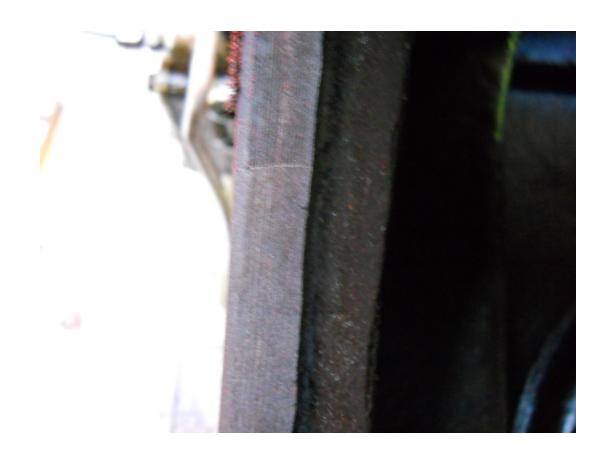
Inspection – Magnetic particle test performance on 302B Crank Case to identify cracks and length of crack.

Found—Inspection shows 7 inches of crack and 3 bad bolt holes.





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Beginning stitching process on the flange portion of the crank case.





Continue with stitching process





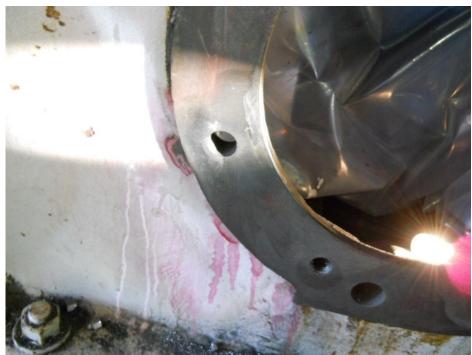




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Finish with stitching process, next step is setting up for bolt hole inserts





Preparing for bolt hole inserts





Project complete with stitching pins and inserts in place.



