

# SHOVEL INSPECTOR SAVES SITE OVER \$450,000 IN REPAIRS

## BY IDENTIFYING A DAMAGED GREASE LINE & OTHER CRITICAL ISSUES

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Case Study

### SYNOPSIS

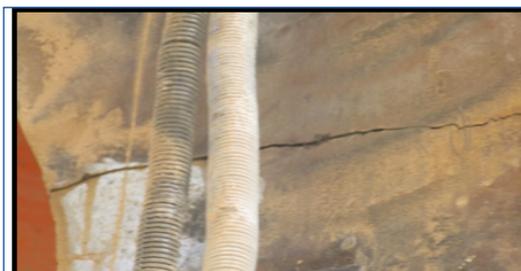
*During a routine inspection by an embedded technician service provided by Mobil Serv<sup>SM</sup> |RIG<sup>®</sup>, multiple critical issues were found on two Caterpillar shovels that would have caused extensive undercarriage damage and endangered shovel operators in the near future.*

*By finding and resolving these issues, the technician was able to save the mine operator over \$450,000 in estimated repairs.*

### GLOBAL LEADERS IN RELIABILITY SERVICES



*Replaced Injectors & Lube Feed Block*



*Cracks In The Boom Attachment*

### INTRODUCTION

Mobil Serv<sup>SM</sup> |RIG<sup>®</sup> have an embedded shovel inspector at several mining sites across the United States. Recently, a routine inspection uncovered multiple items that needed immediate attention. These included:

- Damaged and broken grease lines to point sheaves, leaving them dry
- Several critical undercarriage components that were close to failure due to a lack of lubrication including idlers, tumblers and load rollers
- Lube injectors and lube feed blocks that were not properly functioning
- Weld breakage and broken ladder adjustments posing a potential injury threat
- Additional cracks and missing bolts in the hoist case and boom attachments

These critical equipment issues were caught by the inspector before any serious damage to the equipment or accidents involving the operator occurred preventing both OSHA recordable injuries and equipment downtime.

### IMPACT & COST SAVINGS

The issues discovered by the Mobil Serv<sup>SM</sup> |RIG<sup>®</sup> technician during inspection were quickly repaired, with minimal equipment downtime.

This saved \$450,000 in estimated hard cost savings from catching these issues before they caused equipment damage, including:

- \$300,000 by preventing repairs to point sheaves
- \$12,500 saved with lube injector adjustments
- \$30,000 in prevented undercarriage repairs
- \$125,000 in additional damage prevented by replacing the bolt and repairing the attachment

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In addition, the broken weld and missing bolt on the ladder posed a serious risk to operators. By repairing these, the personal health and safety of employees was protected.

## CONCLUSION

Our embedded inspector program plays a critical role in finding real cost savings by preventing equipment failure and managing lubricants to keep machinery running and peak performance. The Mobil Serv<sup>SM</sup> |RIG<sup>®</sup> embedded technician program hire personnel with the right experience to fit your sites inspection, maintenance, and lubrication management needs. Our program offers resources for:

- Shovel inspectors
- Lubrication specialists
- Reclamation technicians
- Maintenance team extensions

We customize the services and programs to fit your needs, timeline and budget. [Learn more here](#) or contact us today: [1-800-770-4510](tel:1-800-770-4510)

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