

# Mobil Bypass Filtration and Mobil LubeGuard breathers help customer enhance equipment protection\*



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## Re-injection reciprocating compressor | Offshore oil production platform | California, United States

### Situation

A Pacific Coast offshore production platform operates a re-injection reciprocating compressor. During a scheduled overhaul, maintenance personnel discovered extensive corrosion on the oil-wetted surfaces of the engine crankcase. Results of **Mobil Serv<sup>SM</sup> Lubricant Analysis** detected persistent levels of water and chemical contamination in the lubricant, which contributed to the component damage. While steps were taken to mitigate leaking seals, environmental conditions made water contamination an ongoing problem. Company managers approached ExxonMobil to determine a maintenance strategy for combating contamination and preventing component corrosion.

### Benefit

**Mobil Bypass Filtration** and **Mobil LubeGuard** desiccant breathers have helped this offshore oil production platform reduce water contamination on its reciprocating compressors, preventing corrosion and improving equipment reliability to generate a company-estimated total cost of ownership savings of US \$228,000 in reduced maintenance and labor costs.

### Impact

More than three years after installing the preventative maintenance equipment, **Mobil Serv Lubricant Analysis** results have confirmed that water is being successfully removed from the compressor and shipping pump. Maintenance personnel are pleased to report that both pieces of equipment are operating reliably, without showing any signs of corrosion-related damage.

**Estimated total cost of ownership savings of**

**\$228K**

### Recommendation

Following a thorough equipment inspection, ExxonMobil engineers recommended installing a **Mobil Bypass Filtration System** to remove water, along with a **Mobil LubeGuard** desiccant lubricant reservoir breather to maximize lubricant performance. Field engineers also recommended performing **Mobil Serv Lubricant Analysis** on a routine basis to monitor equipment and oil condition.

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\*This Proof of Performance is based on the experience of a single customer. Actual results can vary depending upon the type of equipment used and its maintenance, operating conditions and environment, and any prior lubricant used.

\*\*Visit [mobilindustrial.com](http://mobilindustrial.com) to learn how certain Mobil-branded lubricants may provide benefits to help reduce environmental impact. Actual benefits will depend upon product selected, operating conditions and applications.

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