



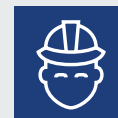
## APPLICATION SPOTLIGHT—Oil & Gas



Improve  
Reliability



Regulatory  
Compliance



Improve  
Safety

# INSPECTING NATURAL GAS COMPRESSORS

## PREVENT LEAKS AND DOWNTIME USING OPTICAL GAS IMAGING AND A VISUAL BORESCOPE

### THE CUSTOMER'S CHALLENGE

Compressors are a common component in the natural gas supply chain, and they are specifically designated as inspection components in regulations like the US EPA OOOOa. This piece of equipment is critical in the movement of natural gas from one location to another by compressing — or pressurizing — the gas and “pushing” it to another location in a pipe. Compressors can fail in a variety of ways, causing downtime or gas leaks: poor packing seals, internal component issues, and extensive wear or thermal stress on components. Inspecting a compressor externally for gas leaks can be time consuming and labor intensive, while inspecting internal components is challenging without the ability to directly see inside the equipment.

### A SOLUTION

Easily locate gas leaks with an optical gas imaging (OGI) camera, such as the FLIR GF620. The GF620 allows a user to inspect equipment for emissions from a safe distance and quickly facilitate proper maintenance. With unique features including thermal analysis and the proprietary High Sensitivity Mode (HSM), maintenance professionals can efficiently inspect a compressor for emission failures while also ensuring that equipment is operating correctly. Pistons inside a compressor may be inspected with a visual borescope, such as the FLIR VS70, by inserting the 4-way articulating head through the spark-plug hole. This device can visualize buildup on the valves and valve seats of the cylinders.

### THE RESULTS

Incorporating a borescope or OGI camera into a routine maintenance plan can help natural gas companies improve safety, reduce costs, and extend the life of compressors — reducing downtime and maintaining regulatory compliance. Using a borescope to inspect the pistons of a compressor allows the user to have visual imagery to support a diagnosis or to share with a vendor or asset owner if inspected by a service company. This may allow an inspection to be performed without completely dismantling the equipment, drastically expediting the inspection. When inspecting a compressor with an OGI camera, maintenance professionals can ensure that any regulation associated with that piece of equipment is met; the exact source of the leak is located, and a repair is made accordingly. The FLIR GF620 camera will also allow a user to inspect the compressor from a safe distance, and find a leak without being directly in it when inspecting.

For more information about FLIR in the oil and gas industry or to schedule a product demonstration visit:

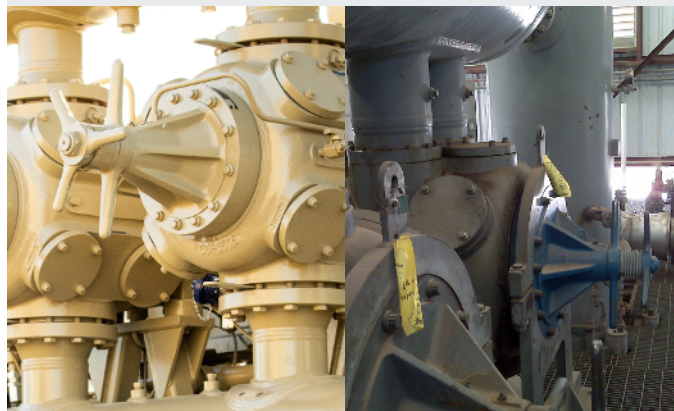
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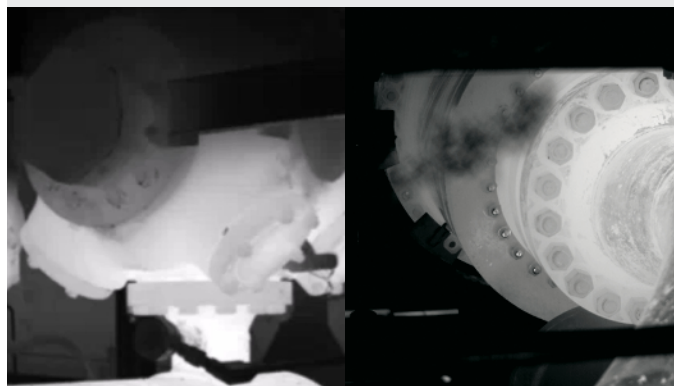
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*Gas leaks can be challenging to find when failed components are not visible from the outside of the compressor.*



*An OGI camera makes it safer and more efficient to pinpoint gas leaks from compressors.*

