

Engine Overhaul Creates Lots of Build Debris



Spinner II® CS System Effectively Traps It

Scenario

A White-Superior engine user overhauled a model G825 applied to drive a gas-gathering compressor. The operator was concerned about high dirt loads at start-up, especially following the overhaul. Build debris generated during the overhaul can be a source of catastrophic engine failure.

Solution

The factory-fit lube filtration system was replaced with a Spinner II CS centrifuge/cleanable screen system before the engine was returned to service.

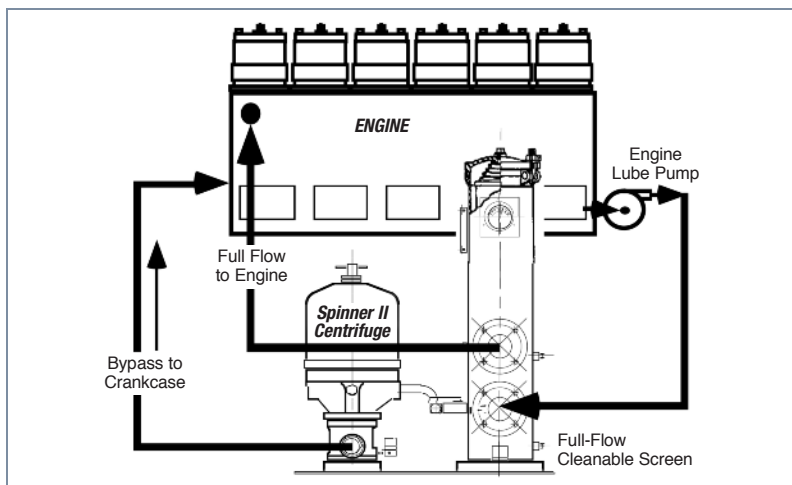


Results

After only 120 operating hours, the screen pressure drop had increased to 35 psid, a level well-beyond the normal service point. After the screen was removed from the housing, the operator found it was covered with small slivers of steel and bronze which had been "chewed up" during engine break-in. A quick clean-up of the screen with water jet spray removed the trapped debris.

The centrifuge/screen system has now achieved 70 days of continuous operation. Since the centrifuge continues to trap wear debris (approximately 500 grams in the bowl at last check), the screen is still operating below change-out pressure levels. The operator has concluded that by applying a filtration design that allows *no filter bypass* during the high dirt loads at start-up, catastrophic failures after overhaul are prevented.

The Spinner II CS System is also saving maintenance dollars and time. It eliminates throw-away components, reducing maintenance and disposal costs. As a result, the operator is saving money while continuously keeping the oil cleaner than with media-only approaches.



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SPINNER II® Oil-Cleaning Centrifuges