



CAMSHAFT COOLING WITH HIGH PRESSURE

File No. 55

Section 5

PROBLEM:

Holding close tolerance and low operating expenses are high priorities for this camshaft manufacturer. The existing process was interrupted by frequent and expensive downtime.

SOLUTION:

CAT PUMPS dependable continuous duty, performance solved the downtime problem, while its fast response pressure build-up improved quality and production.

SPECIFICATIONS:

CAT PUMPS Model (three).....	550
Pressure	2800 PSI
Flow (each)	9 GPM
Temperature	Ambient
Fluid	Machine Oil
Duty Cycle	Continuous
Drive	Electric

OPERATION:

Three CAT PUMPS model 550 have been running smoothly since October 1980 delivering machine coolant to six camshaft grinders. This high pressure coolant flushes the cuttings and cools the metal during grinding to assure closely held tolerances. The coolant is filtered down to 10 micron and recirculated. The fast pressure build-up of the CAT PUMP puts them on-line immediately upon demand. A constant system pressure is maintained with a regulator.

Many advantages were recognized when CAT PUMPS replaced the six air operated pumps previously on this system. "Savings" summarizes all these advantages. Now this company has a better product that costs less and takes less time to produce.

BENEFITS:

- Instant pressure from the CAT PUMP powered system means less energy and drastic increase in horsepower efficiency.
- Consistent pressure means less grinding time.
- No air means less operating expense.
- No air means less initial installation costs.

Products described hereon are covered by one or more of the following U.S. patents 3558244, 3652188, 3809508, 3920356, 3930756 and 5035580

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