



Johnson Matthey Catalysts

APPLICATION FACT SHEET

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Case No. 703: CRT[®] Diesel Particulate Filter Installed on a Rock Crusher and Conveyor to Reduce PM and Odor

J Cloud Inc. of El Cajon, CA installed Johnson Matthey CRT2's on their CAT 3408 and CAT 3306 engines. The CAT 3408 drives a hydraulic pump that powers a rock crusher and the CAT 3306 drives a generator that provides power for a conveyor. Each CRT2 contains two particulate filters and was selected to match the engine size and exhaust conditions.

	CAT 3408			CAT 3306		
	Engine Out g/hp-hr	Guaranteed g/hp-hr	Reduction %	Engine Out g/hp-hr	Guaranteed g/hp-hr	Reduction %
PM	0.2	0.045	85	0.3	0.03	85
CO	1.6	0.52	80	2.6	0.32	80

Background

J. Cloud Inc. has a rock crushing operation near San Diego in El Cajon, California where Caterpillar diesel engines are used to provide hydraulics and power for the equipment. This site operates 8 hours a day for 5 days a week. After receiving complaints of diesel odors and dust, the San Diego APCD investigated and found that prevailing winds were responsible for transporting dust and odors to the residences nearby. As a result, J Cloud was required to remedy the situation by installing emissions control equipment. J Cloud chose to install Johnson Matthey's CARB verified CRT particulate filter, a technology which contains an integrated oxidation catalyst and a particulate filter. The catalyst eliminated the odor and the filter reduced the PM. Both CRT2's run at a backpressure of approximately 15"WC at full load and have only been cleaned once at 1200 hours to remove accumulated ash from the filters.



Summary

- **Product:** CRT2 Diesel Particulate Filter
- **Application:** 536 Hp CAT 3408 and 430 Hp CAT 3306 engines
- **Customer:** J Cloud Inc.
- **Location:** El Cajon, CA
- **Installed By:** J Cloud Inc.
- **Date Installed:** September 2, 2005
- **Operation:** Rock crusher and conveyor belt
- **Pollutants:** PM and CO
- **Comments:** The CRT2's have operated for over 2,000 hours with no problems

