

**DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION  
ACTIVITY REPORT: Self Initiated Inspection**

N756446033

FACILITY: MARTIN TECHNOLOGIES		SRN / ID: N7564
LOCATION: 55390 LYON INDUSTRIAL DR., NEW HUDSON		DISTRICT: Southeast Michigan
CITY: NEW HUDSON		COUNTY: OAKLAND
CONTACT: Brian Jones , Vice President		ACTIVITY DATE: 06/08/2018
STAFF: Lauren Magirl	COMPLIANCE STATUS: Non Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: On-site investigation		
RESOLVED COMPLAINTS:		

On Friday, June 8, 2018, Rem Pinga and I, Lauren Magirl, Michigan Department of Environmental Quality-Air Quality Division (MDEQ-AQD) inspectors, conducted an unannounced self-initiated inspection at Martin Technologies located at 55390 Lyon Industrial Drive, New Hudson, Michigan. The purpose of this inspection was to determine the compliance of the facility with the Federal Clean Air Act: Article II, Part 55, Air Pollution Control of Natural Resources and Environmental Protection Act, 1994 Public Act 451, as amended; and Michigan Department of Environmental Quality, Air Quality Division rules and Permit to install (PTI) No. 352-05.

#### Pre-Inspection Meeting/ Facility Overview

We arrived at the facility at about 2:00 pm and met with Mr. Brian Jones, Vice President. We identified ourselves, provided our credentials and stated the purpose of our inspection.

Martin Technologies evaluates testing for original equipment manufacturing (OEM) on an as needed basis. Mr. Jones stated they are moving to fabrication and machining of engines. They build race car engines from scratch at a low volume basis. Mr. Jones mentioned they currently have 18 employees and work Monday to Friday 7:30 am – 4:00 pm and may occasionally work Saturday.

#### Site Walk Through

They have an area of the plant for fabrication of the engines. These engines are build by hand. The equipment used in the fabrication process include: lathe, band saw, and two mineral spirit cold cleans. The cold cleaners are about 18' x 24' and were closed at the time of the inspection. They had the procedure posted inside the hoods of the cold cleaners. The fabrication equipment appears to be exempt from PTI pursuant to Rule 285(2)(I)(vi)(B). The cold cleaners appear to be exempt from PTI pursuant to Rule 281(2)(h).

There are four electrical testing stands which conduct different test on the engines. No emissions are expected from this process. There was an electric motor for spin testing.

#### EUTESTCELLS

PTI No. 352-05 is for four engine dynamometer test cells using gasoline fuel. Dynamometer cells one through three are eddy current and cell four is a water break dynamometer.

Cells one through three run off gasoline which is fed to the cells from a fuel tank. The fuel tank has two bladders. The north bladder contains diesel fuel and the south bladder contains gasoline fuel. Each bladder is 6,000 gallons. Mr. Jones stated that the last delivery of fuel was about 3 months ago and they keep eighteen inches in the tank. The tank appears to be exempt from PTI pursuant to Rule 284(g)(iii).

Cell four uses a high-performance fuel which is delivered in a 55 gallon drum. The high-performance fuel is an oxygenated fuel that may not contain lead. This fuel is used on a batch basis during testing. They used around 2 gallons per test. The last delivery of the high-performance fuel was 2008.

SC 1.1a: States 3.12 lb/gallon CO of gasoline. Records were not kept and a violation notice was sent to the facility.

SC1.1b: States 89.5 tpy of CO. Records were not kept and a violation notice was sent to the facility.

SC 1.2: States gasoline usage for EUTESTCELLS shall not exceed 56,000 gallons per 12-month rolling time period. In the last year the facility has used 4,700 gallons in the last 12 months.

SC 1.3: States leaded gasoline usage for EUTESTCELLS shall not exceed 200 gallons per 12-month rolling time period. The facility did not use leaded gasoline during the last 12 months.

SC 1.4: A violation notice was sent to Martin Technologies for to not keeping records.

SC 1.5: States permittee shall keep monthly and 12-month rolling time period for CO emissions. Records were not kept and a violation notice was sent to the facility.

SC 1.6: States permittee shall keep monthly and 12-month rolling time period for fuel consumption. In the last year the facility has used 4,700 gallons of fuel in the last 12 months.

#### Conclusion

Based on the inspection, Martin Technologies appears to be in non-compliance with applicable air quality regulations. A violation notice was sent seeking compliance with PTI No. 352-05 requirements.

NAME LM

DATE 10/8/18

SUPERVISOR SF