

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: On-site Inspection

N732067860

FACILITY: MAHLE Industries, Inc.		SRN / ID: N7320
LOCATION: 23030 MAHLE DRIVE., FARMINGTN HLS		DISTRICT: Warren
CITY: FARMINGTN HLS		COUNTY: OAKLAND
CONTACT: Nathan Wolak , Development Engineering Supervisor		ACTIVITY DATE: 06/13/2023
STAFF: Mark Dziadosz	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT
SUBJECT: FY 2023 Inspection		
RESOLVED COMPLAINTS:		

On Tuesday, June 13, 2023, I, Michigan Department of Environment Great Lakes and Energy-Air Quality Division staff Mark Dziadosz, conducted an announced scheduled inspection of Mahle Industries Inc. (N7320), located at 23030 Mahle Drive, Farmington Hills, Michigan. The purpose of this inspection was to determine the facility's compliance with the Federal Clean Air Act Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act of 1994, PA 451, as amended, Michigan Department of Environment, Great Lakes and Energy (EGLE-AQD) Administrative Rules, and Permit to install No. 295-03G.

On August 5, 2016, the facility was issued Permit to Install (PTI) No. 295-03F for 5 engine dynamometer test cells. This PTI was voided on 12/8/2020 and the equipment was removed. The facility reported 826 gallons of gasoline usage for RY2020 in MAERS and indicated all fuel usage was in January-March.

The facility was scheduled for inspection in FY 2022 to verify the equipment was removed from the facility, however, this did not occur because in May 2022 EGLE-AQD received a permit application to resume engine testing at the facility and on December 21, 2022, PTI No. 295-03G was issued.

Facility Inspection

I arrived at Mahle Industries Inc. (Mahle) at approximately 2:30 PM and met with Matt Williams. Also present for the inspection was Mike Zack, Sue Palmer, Nathan Wolak, and Nick. The facility is utilized for research and development. The engine test cells are tested using diesel, gasoline, and alternative fuels (E85/ethanol, compresses natural gas, liquified natural gas, and hydrogen). PTI No. 295-03G was issued for 5 test cells, however, according to Matt, only 4 will be built.

At the time of inspection, only 1 test cell (#131) was in trial operation. This test cell was being operated on Natural Gas that is piped to the cell. For the other fuels used, barrels are used (no storage tanks). I was shown the calibration certificate for the Natural Gas fuel meter (S.C. IV.3, VI.2). Matt showed me the recordkeeping spreadsheets that had been set up by Barr Engineering to monitor fuel usage. The engine being tested was 90 HP. Mahle expected full operation to occur sometime in late July 2023.

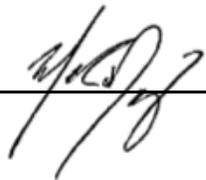
Test cell #132 was the only other cell that had been constructed. There was not an engine inside the cell during the inspection. This cell was set up for a 132 HP engine. The exhaust stack was not yet set up in the cell.

I told the facility to notify EGLE-AQD that the facility will begin trial operation of the cells, as required by S.C. VII.1 of PTI No. 295-03G. This notification was received on 6/14/2023.

Conclusion

The permittee appears to be in compliance with the regulations of the Federal Clean Air Act; Article II, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), Michigan Department of Environment, Great Lakes and Energy (EGLE-AQD) Administrative Rules, and PTI No. 295-03G.

NAME

DATE June 27, 2023

SUPERVISOR

