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

N272167261	-		
FACILITY: Trialon Corporation		SRN / ID: N2721	
LOCATION: 3000 UNIVERSITY DR, AUBURN HILLS		DISTRICT: Warren	
CITY: AUBURN HILLS		COUNTY: OAKLAND	
CONTACT:		ACTIVITY DATE: 02/09/2023	
STAFF: Iranna Konanahalli	COMPLIANCE STATUS: Compliance	SOURCE CLASS: SM OPT OUT	
SUBJECT: CMS ROP-opt-out Source	e FY 2023 scheduled inspection of Trialon Corpor	ration (N2721) ("Trialon"), fka Delphi Automotive	
Systems, LLC (N2721) located at 30	00 University Dr., Auburn Hills, Michigan 48326.		
RESOLVED COMPLAINTS:			

Trialon Corporation (N2721)

fka Delphi Automotive Systems, LLC (N2721)

3000 University Dr.

Auburn Hills, Michigan 48326

Name change: About 2020, Trialon purchased Delphi Technologies especially testing labs.

Contact:

1. **John Doud** (Mail Code: NA; Phone: NA; Fax: NA; Cell: 810-691-8477; Email: jDoud@Trialon.com), Manager, Testing and Validation

Active permit: PTI No. 305-08A dated September 15, 2011, for six engine dynamometer test cell labs. The permit amendment (PTI No. 305-08 → PTI No. 305-08A) reduced the test cells from 8 to 6. The amendment also increased the allowable CO limit. Operation of FG-DynoTestLabs with uncontrolled emissions under the following circumstances:

- 1. Thermal shock;
- 2. Poisoning tests; or,
- 3. Backpressure requirements.

On February 09, 2023, I conducted a level-2 CMS ROP-opt-out Source FY 2023 scheduled inspection of Trialon Corporation (N2721) ("Trialon"), fka Delphi

Automotive Systems, LLC (N2721) located at 3000 University Dr., Auburn Hills, Michigan 48326. The inspection was conducted to determine compliance with the Federal Clean Air Act; Article II, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994, PA 451; Michigan Department of Environment, Great Lakes and Energy, Air Quality Division (EGLE-AQD) administrative rules; and PTI No. 305-08A.

During the inspection, John Doud, Manager, Testing and Validation, assisted me.

Trialon is a Validation Resource Laboratory for OEMs & Tier suppliers. The services range from performing complex validation programs in one of our state-of-the-art testing facilities to sourcing qualified personnel. Since 1982, Trialon continues to lead by providing not only traditional services — including Environmental Simulation, Electrical, EMC, and Vibration — but also advanced component testing that helps its partners keep up with the demanding development requirements of increasingly complex products.

Upon purchasing Delhi's Auburn Hills facility, Trialon conducts performance and durability tests on emission sensors plus prototype engine development. The Vehicle Emissions Testing Laboratory offers vehicle manufacturers and automotive component suppliers state-of-the-art test chambers for engine and exhaust aftertreatment development and regulatory compliance support. Real-time modal and/or tailpipe emissions data can be collected for:

- 1. U. S. Environmental Protection Agency (EPA)
- 2. California Air Resources Board (ČARB)
- 3. European regulatory schedules (ECE)
- 4. Extra Urban Driving Cycle (EUDC)
- 5. Asian regulatory schedules
- 6. Custom-tailored testing and development.

PTI No. 305-08A, Emission Units (EU)

Emission Unit	Emission Unit Description	Installation Date /	Flexible Group
ID	(Process Equipment & Control Devices)	Modification Date	ID
EU-3D-EDL 6 (formerly 3D)	An engine dynamometer test cell lab capable of testing engines up to 450 brake horsepower in size. The engines tested will be fueled by gasoline, E85 ethanol, or diesel fuel. A maximum of seven engines will be tested simultaneously. The lab is equipped with a single exhaust stack, SV3D-EDL.	October 16, 2008/ September 2011	FG- DynoTestLabs

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
	For purposes of this permit, gasoline and E85 ethanol are considered equivalent fuels.		
EU-3F-EDL 4 (formerly 3F)	An engine dynamometer test cell lab capable of testing engines up to 300 brake horsepower in size. The engines tested will be fueled by gasoline or E85 ethanol. A maximum of one engine will be tested simultaneously. The lab is equipped with a single exhaust stack, SV3F-EDL. For purposes of this permit, gasoline and E85 ethanol are considered equivalent fuels.	October 16, 2008/ September 2011	FG- DynoTestLabs
EU-3F-EDL 4: N	o diesel testing.		
EU-3G-EDL 5 (formerly 3G)	An engine dynamometer test cell lab capable of testing engines up to 380 brake horsepower in size. The engines tested will be fueled by gasoline, E85 ethanol, or diesel fuel. A maximum of three engines will be tested simultaneously. The lab is equipped with a single exhaust stack, SV3G-EDL. For purposes of this permit, gasoline and E85 ethanol are considered equivalent fuels.	October 16, 2008/ September 2011	FG- DynoTestLabs
EU-3H-EDL 1 (formerly 3H) Converted to e- Motors testing.	An engine dynamometer test cell lab capable of testing engines up to 60 brake horsepower in size. The engines tested will be fueled by gasoline, E85 ethanol, or diesel fuel. A maximum of one engine will be tested simultaneously. The lab is equipped with a single exhaust stack, SV3H-EDL. For purposes of this permit, gasoline and E85 ethanol are considered equivalent fuels.	September 2011	FG- DynoTestLabs
EU-3J-EDL 3 (formerly 3J)	An engine dynamometer test cell lab capable of testing engines up to 600 brake horsepower in size. The engines tested will be fueled by gasoline, E85 ethanol, or diesel fuel. A maximum of one engine will be tested simultaneously. The lab is equipped with a single exhaust stack, SV3J-EDL. For purposes of this permit, gasoline	October 16, 2008/ September 2011	FG- DynoTestLabs

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices) and E85 ethanol are considered equivalent fuels.	Installation Date / Modification Date	Flexible Group ID
EU-3K-EDL 2 (formerly 3K) Converted to e- Motors testing.	An engine dynamometer test cell lab capable of testing engines up to 300 brake horsepower in size. The engines tested will be fueled by gasoline, E85 ethanol, or diesel fuel. A maximum of three engines will be tested simultaneously. The lab is equipped with a single exhaust stack, SV3K-EDL. For purposes of this permit, gasoline and E85 ethanol are considered equivalent fuels.	October 16, 2008/ September 2011	FG- DynoTestLabs
converted to e-l	ipment described in this table are subject to the requ	-	

PTI No. 305-08A, Flexible Group (FG)

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs	
FG-DynoTestLabs	G-DynoTestLabs Six (6)engine dynamometer test cell labs. The largest engine tested in any of the six labs will be 600 brake horsepower in size. A maximum of sixteen engines will be tested simultaneously in the combined Test Labs. Each lab is equipped with its own single exhaust	EU-3D-EDL 6	
the six labs will b in size. A maxim will be tested sim combined Test L equipped with its stack. For purpo		EU-3F-EDL 4	
		EU-3G-EDL 5	
		EU-3H-EDL 1	
	stack. For purposes of this permit, gasoline and E85 ethanol are considered	EU-3J-EDL 3	
		EU-3K-EDL 2	
The permit amendment (PTI No. 305-08 ➔ PTI No. 305-08A) reduced the test cells from 8 to 6.			

PTI No. 305-08A, FG-DynoTestLabs

FG-DynoTestLabs: Six (6) engine dynamometer test cell labs. The largest engine tested in any of the six labs will be 600 brake horsepower in size. A maximum of sixteen engines will be tested simultaneously in the combined Test Labs. Each lab is equipped with its own single exhaust stack. For purposes of this permit, gasoline and E85 ethanol are considered equivalent fuels.

POLLUTION CONTROL EQUIPMENT:

Oxidation catalysts or combinations of diesel traps, NOx or hydrocarbon adsorbers designed to meet U.S. EPA vehicle emissions standards.

Not always emissions controls are used because of pressure that affects sensor durability testing. Under above mentioned three circumstances, pollution control equipment is not used.

PTI No. 305-08A, FG-DynoTestLabs, I.1-2

PTI No. 305-08A, FG-DynoTestLabs, I.1-2

- 1. NOx < 1.05 tons per12-mo rolling period < 4.0 tpy limit
- 2. CO < 5.8 tons per12-mo rolling period < 14.0 tpy limit

PTI No. 305-08A, FG-DynoTestLabs, II.1-2

CY 2022: Trialon used 37,708 gallons and 31,116 gallons of gasoline and diesel, respectively. (PTI No. 305-08A, FG-DynoTestLabs, II.1-2 limits: < 101,500 gallons of gasoline and/or E85 ethanol and < 56,500 gallons of diesel per 12-month rolling period)

PTI No. 305-08A, FG-DynoTestLabs, III.1

When doing performance testing, only one engine can be tested and never two. (PTI No. 305-08A, FG-DynoTestLabs, III.1: shall not test more than two engines simultaneously)

PTI No. 305-08A, FG-DynoTestLabs, IV.1

Trialon uses either oxidation catalysts or combinations of diesel traps, NOx or hydrocarbon adsorbers designed to meet U.S. EPA vehicle emissions standards. Bypass is allowed under the following engine testing conditions: thermal shock, poisoning tests, or backpressure requirements, or other non-routine development tests.

PTI No. 305-08A, FG-DynoTestLabs, VI.1-2

Trialon keeps test cells testing information, records fuel usage (gasoline, E85 ethanol, and diesel) and performs the required calculations (CO & NO_X) on monthly and 12-month rolling period basis.

CONCLUSION

Trialon is in compliance with PTI 305-08A.

NAME Stlenanahalt.

DATE May 1, 2023 SUPERVISOR Joyce