

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

N066861933

FACILITY: ANCHOR COUPLING INC		SRN / ID: N0668
LOCATION: 5520 13TH ST, MENOMINEE		DISTRICT: Marquette
CITY: MENOMINEE		COUNTY: MENOMINEE
CONTACT: PAULA OLIG, EHS ASSOCIATE SUPERVISOR		ACTIVITY DATE: 02/15/2022
STAFF: Lauren Luce	COMPLIANCE STATUS: Compliance	
SUBJECT: Announced inspection to determine compliance with PTI # 18-07A		SOURCE CLASS: MINOR
RESOLVED COMPLAINTS:		

Facility: Anchor Coupling (SRN: N0688)

Location: 5520 13th Street, Menominee, Menominee County, MI, 49858

Contact(s): Paula Olig, EHS Associate Supervisor

Regulatory Authority

Under the Authority of Section 5526 of Part 55 of NREPA, the Department of Environment, Great Lakes, and Energy may upon the presentation of their card, and stating the authority and purpose of the investigation, enter and inspect any property at reasonable times for the purpose of investigating either an actual or suspected source of air pollution or ascertaining compliance or noncompliance with NREPA, Rules promulgated thereunder, and the federal Clean Air Act.

Facility Description

Anchor Coupling is a wholly owned subsidiary of Caterpillar and is a major manufacturer of hydraulic hose assemblies to both large and small OEMs since 1938. They use machining, extrusion, brazing, plating, and bending to produce SAE, DIN, and JIS hose and couplings in many different configurations from 1/4" to 4" in diameter. Braided, high-pressure spiral, and Teflon/stainless hoses are available in industry standard configurations. In addition, many specialty hoses with reduced bend radius and high abrasion covers are designed for rigorous applications with high temperature capabilities.

Process Description

Anchor Coupling manufactures metal hydraulic hose fittings and hose assemblies. The metal components are produced from steel bar and tube stock by screw machines, rotary transfer (BTB) machines and computer numerical control (CNC) machines. They are subject to cleaning, annealing, copper brazing, pressing, crimping, bending, zinc electroplating and finishing operations. Hydraulic hoses are cut, fitted with hydraulic fittings, inspected and packaged for shipment. Finished products and parts are warehoused onsite before shipping to customers.

Emissions Reporting

Anchor Coupling is not required to report annual emissions to Michigan Air Emissions Reporting System (MAERS).

Regulatory Analysis

The facility is subject to PTI No. 18-07A. The facility shall comply with all provisions of the National Emission Standards for Hazardous Air Pollutants for Plating and Polishing Operations as specified in 40 CFR Part 63 Subparts A and WWWW, as they apply to FGSCRUBBERLINES. (40 CFR Part 63 Subparts A & WWWW)

Compliance History

The facility has not received any violation notices in the past five years. The facility was last inspected in September 2018 and was found to be in compliance with all applicable air quality rules and federal regulations at that time.

Inspection

On February 15, 2022, I conducted an announced inspection of Anchor Coupling. I arrived at the office building and met with EHS Associate Supervisor, Paula Olig. It was explained to Ms. Olig that the purpose of the inspection was to ensure compliance with PTI No. 18-07A and all other applicable air pollution control rules and federal regulations. The inspection was also to confirm the removal of (2) Brazing Ovens – General Electric Mesh Best Furnaces. Ms. Olig provided a tour of the facility.

PTI No. 18-07A lists three Emission Units which are combined into one Flexible Group (FGSCRUBBERLINES):

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EURACKDIPLINE	Rack zinc electroplating process with a hot water heater, a horizontal cross flow wet packed bed fume scrubber and exhaust system, 17 tanks: 970-gallon soak clean, 1380-gallon electro clean, 640-gallon cold water rinse, 640-gallon acid, 640-gallon acid pickle, 640-gallon cold water rinse, two 3600-gallon acid zinc, 640-gallon cold water rinse, 640-gallon hot water rinse, 640-gallon cold water rinse, 640-gallon pre-dip, 640-gallon cold water rinse, 730-gallon trivalent chromate, 640-gallon cold water rinse, 730-gallon topcoat, and 730-gallon rust prevention.	2017	FGSCRUBBERLINES

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Installation Date / Modification Date	Flexible Group ID
EUBARRELLINE	Automatic barrel zinc electroplating process with 15 tanks: 290-gallon soak clean tank, 310-gallon electro clean, two 250-gallon cold water rinse, 230-gallon acid pickle, two 250-gallon cold water rinse, 1370-gallon zinc plating, 260-gallon cold water rinse, 230-gallon pre-dip, 260-gallon cold water rinse, 255-gallon trivalent chromate, two 250-gallon cold water rinse, and 255-gallon topcoat.	2007	FGSCRUBBERLINES
EUAIRMAKE1	Two 15,000 cfm, 3,078,000 Btu/hr, natural gas-fired air make-up units to balance pressure drops created by the scrubber.	2017	FGSCRUBBERLINES

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1290.

EUBARRELLINE

Records were requested and provided for scrubber 1 for EUBARRELLINE. One month of daily PH, pressure drop, and flow rates were provided. Three months of maintenance records were provided for scrubber 1. There were no issues with this control device.

EURACKDIPLINE

Records were requested and provided for scrubber 2 for EUBARRELLINE. One month of daily PH, pressure drop, and flow rates were provided. Three months of maintenance records were provided for scrubber 2. There was one documented issue where the PH probe was not working correctly and PH was tested with a handheld tester.

A copy of the Malfunction Abatement Plan was also requested and provided.

Miscellaneous

PTI No. 685-83 is for the brazing ovens. The facility submitted a request to void this permit on 1/28/22. It was confirmed and documented during the inspection that the (2) Brazing Ovens –

General Electric Mesh Best Furnaces have been removed. They have been replaced with two furnaces that are exempt under Rule 282 (2) (a).

PTI No. 974-84 for a baghouse collecting tool grinding waste was voided 7/28/2015.

The facility operates 17 cold cleaners. These are all small enough to qualify to the exemption listed in Rule 281 (h). Each unit has a sign posted requiring the lid to be kept closed when not in use.

Compliance

Based on this inspection, Anchor Coupling is in compliance with PTI No. 18-07A and all other applicable regulations.



Image (1): EUBARRELLINE.



Image (2): EURACKDIPLINE.

NAME Jan L

DATE 3/9/22

SUPERVISOR EDF