

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

N396128128

FACILITY: EDWARDS CHEVROLET		SRN / ID: N3961
LOCATION: 1807 N STEPHENSON AVE, IRON MOUNTAIN		DISTRICT: Upper Peninsula
CITY: IRON MOUNTAIN		COUNTY: DICKINSON
CONTACT: Darren Holmberg , Service Manager		ACTIVITY DATE: 12/10/2014
STAFF: Joe Scanlan	COMPLIANCE STATUS: Compliance	SOURCE CLASS: MINOR
SUBJECT: Unannounced inspection to determine permit compliance for waste oil furnaces.		
RESOLVED COMPLAINTS:		

FACILITY: Edward's Chevrolet-Cadillac-Buick, Iron Mountain

FACILITY CONTACTS: Darren Holmberg--Service Manager; Dave Beaudoin--Maintenance

PURPOSE: Self-initiated inspection to determine compliance with two permitted waste oil furnaces

LOCATION: The dealership is located on the western outskirts of downtown Iron Mountain in a commercial/industrial district on US-2.

PERMIT HISTORY: PTI 220-93 was originally issued in 1993 for two waste oil furnaces used for supplemental heat in the service garage. The Black Gold furnaces were installed in 1986 and 1991. The furnaces were installed without knowing an air compliance permit was required at the time of installation. Special Conditions in the permit limit the maximum designed heat input rating of each permitted furnace not to exceed 200,000 BTU at a rate of no greater than 1.5 gallons/hour. Over the years, the furnaces have been replaced a couple of times and the equipment currently being utilized are two Energylogic units each capable of producing 350,000 BTU at a rate of 2.5 gallons/hour of waste oil.

INSPECTION: I arrived at the facility and entered the service area of the dealership. I introduced myself to Mr. Darren Holmberg. Mr. Holmberg took me out into the service area and introduced me to maintenance employee Mr. Dave Beaudoin. Mr. Beaudoin was familiar with the waste oil furnaces and their day-to-day operation. The dealership and service garage had been rebuilt in 2014 and occupied in November/December. The two 350,000 BTU Energylogic furnaces currently installed were purchased new and installed in the last quarter of 2014. The two previous furnaces had been removed and were no longer located on site. A new waste oil collection and storage system was also engineered and installed during the reconstruction.

Each service bay has a dedicated waste oil drain and associated plumbing to the above ground storage tank located outside the garage. The waste oil storage tank has a capacity of 4000 gallons and supplies fuel to both furnaces. Once the waste oil leaves the outdoor storage tank and enters the building, it first enters an elevated pre-warming tank located near the ceiling of the garage where the oil is warmed via the heated air collected there. Next, the waste oil is sent through a pump and pre-filter, then the waste oil is separated into two supply lines to feed each individual furnace. Each furnace also has a spin-on waste oil filter prior to entering the furnaces metering pump.

When the new system was designed there was no port or access to the waste oil for sampling purposes on the tank or the plumbed collection/supply lines. Because of this, a waste oil sample was collected from the most easily accessible location--the supply line from the secondary spin-on oil filter to the furnace. Sample analysis showed contaminants within the waste oil were within the required parameters. The facility does not accept waste oil from outside sources and only utilizes waste oil generated on-site. The dealership also records monthly fuel usage per the requirements of PTI #220-93.

SUMMARY: I observed no violations of the Air Pollution Control Rules. The dealership was clean and the waste oil furnace system is modern and aside from no sampling port is well-designed. This facility has had no violations or major compliance issues since permit issuance and is currently eligible for a permit exemption based on Rule 282(b)(iv) for on-site generated waste oil-burning equipment producing less than 500,000 BTUs used for space heating. I have advised the facility owner, Mr. Jeff Edwards, of this and sent him the applicable information should he desire to request the exemption.

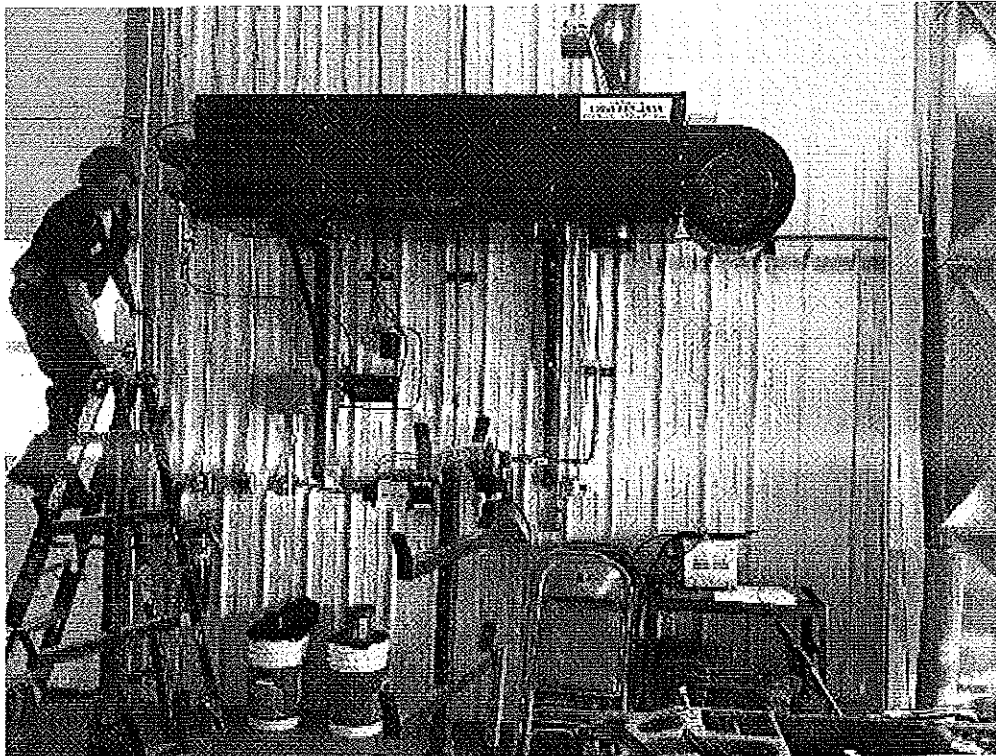


Image 1(E1) : Newly installed waste oil furnace (Energylogic EL 350H)

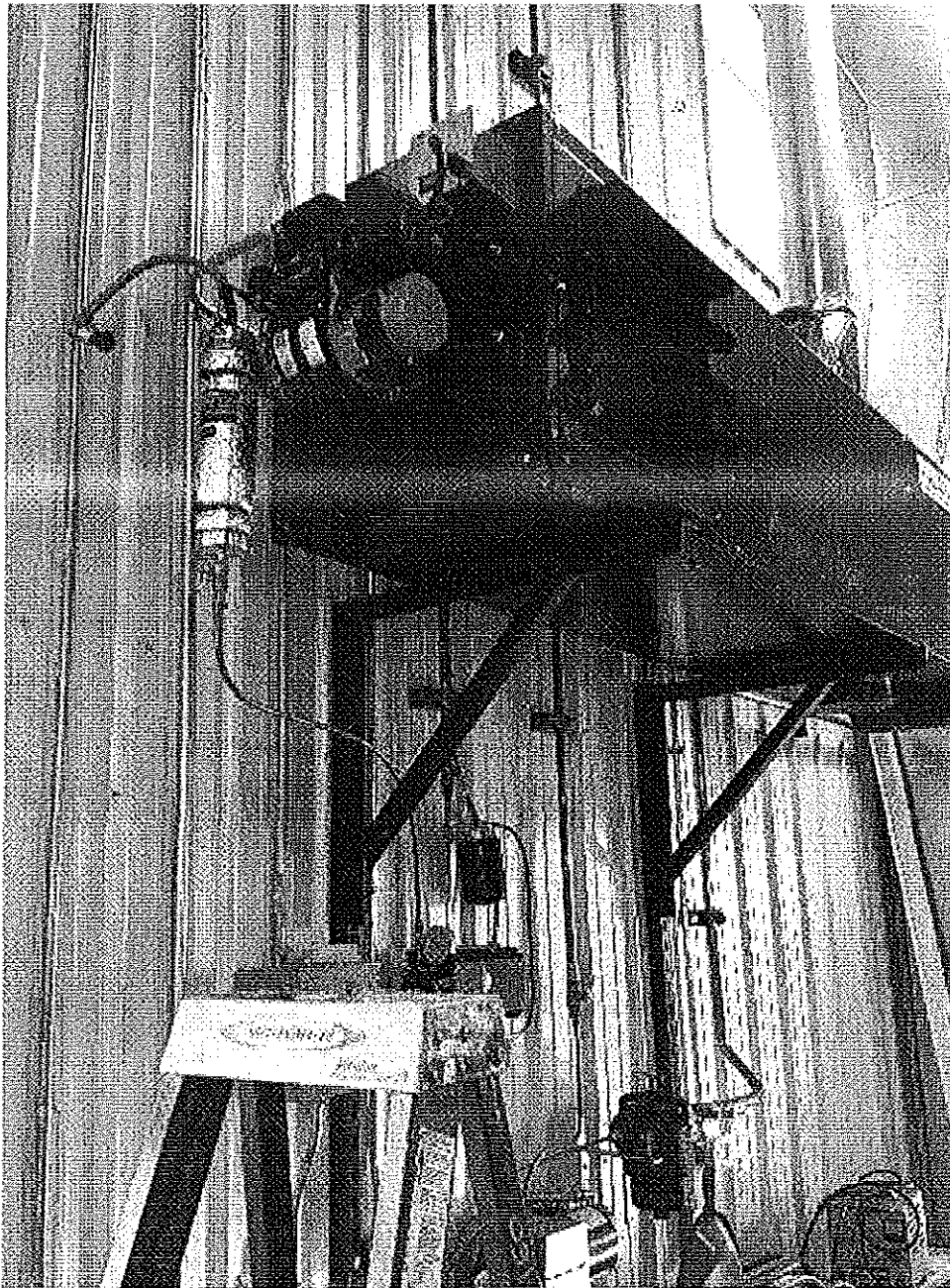


Image 2(E2) : Sample collected from oil input line, post-filter.

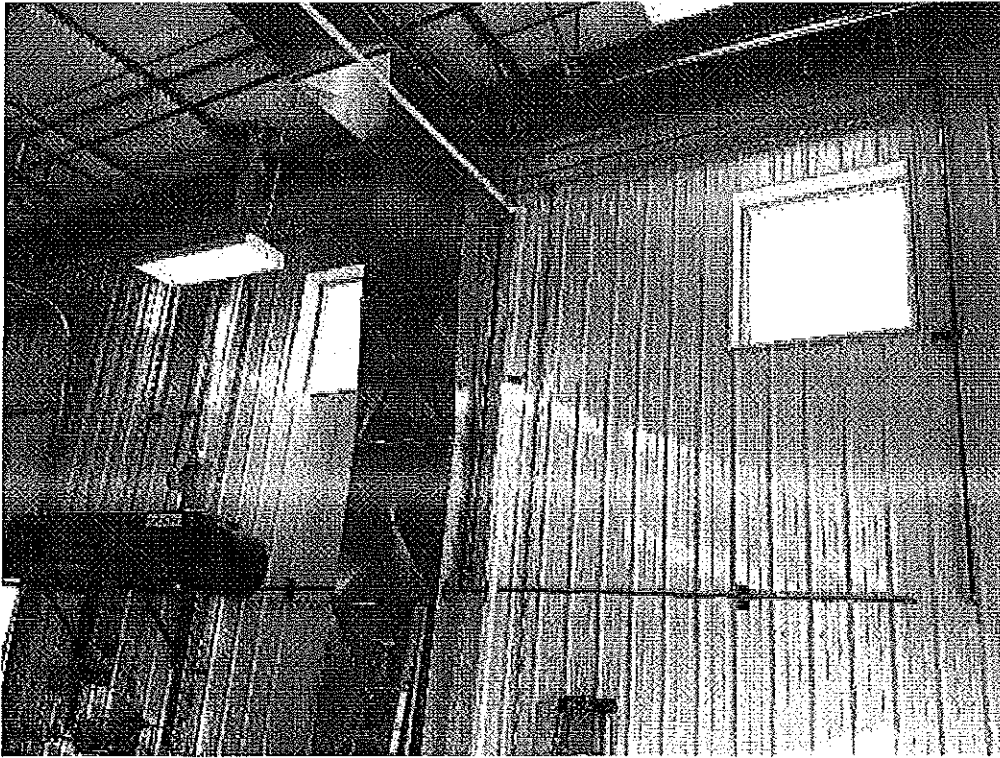


Image 3(E3) : Waste oil transport line configuration. 1000 Gallon UST is on opposite side of wall.

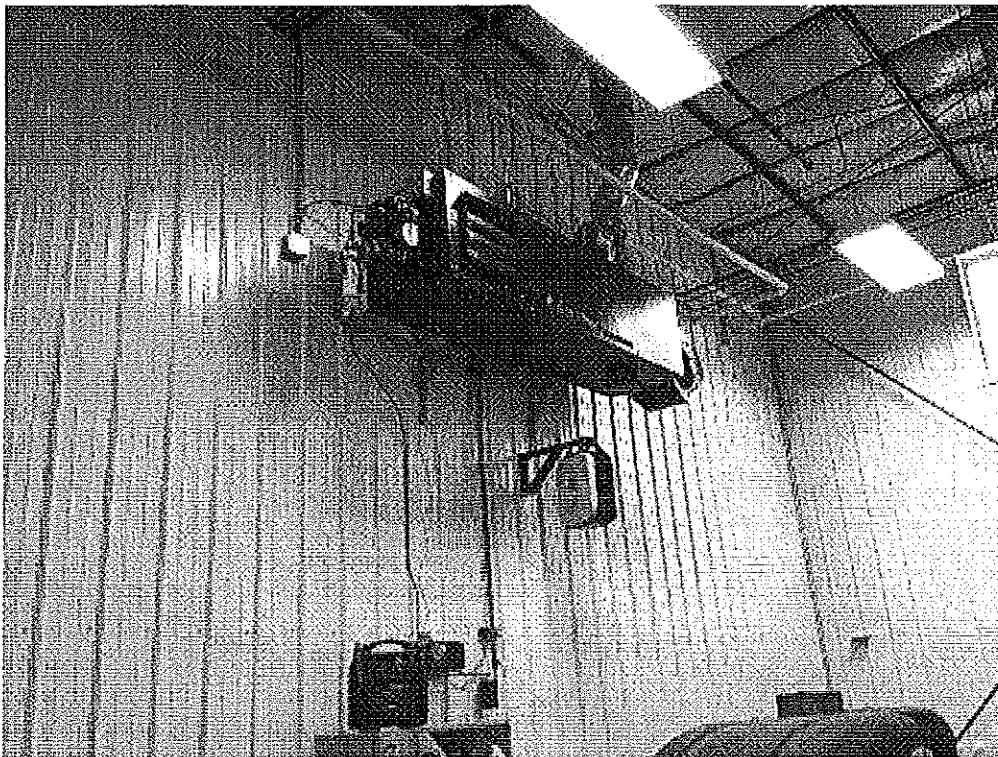


Image 4(E4) : Second waste oil furnace--furthest from tank.

NAME Joseph SO

DATE 2/13/15

SUPERVISOR _____



WASTE OIL HEATERS WASTE OIL BOILERS HVLS FANS RECYCLING USED OIL VIDEOS SUPPORT CONTACT US
 Overview Models Features Advantages Accessories Promotions & Financing Compare

- 140H
- 200H
- 350H
- 140H + 130 Tank
- 140H + 250 Tank
- 200H + 130 Tank
- 200H + 250 Tank
- 350H + 250 Tank

350,000 BTU Waste Oil Heater

Heats up to 9,000 square feet, approximately eight or more service bays.

BTU Input

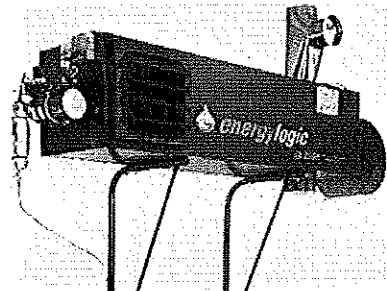
350,000 BTU (102 kW) per hour

Fuel Flow Rate

2.5 gallons/hour (9.4 liters/hour)

Heat Rise Over Input Air

100-120° F (37.8-48.9° C)



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 to get a quote and locate a dealer

Features	Specifications	Tanks	Accessories
<p>Only EnergyLogic Systems Include These Features - Standard</p> <ul style="list-style-type: none"> • Air Compressor: Integrated so you don't have to use shop air • Low Fuel Cutoff: Guarantees your furnace won't run on empty • Maximum Installation Flexibility: Tank-mount, Wall-mount, Ceiling-hung • Patented Metering Pump: Precision fuel delivery • Stainless Steel Heat Exchanger: Long lasting and corrosion resistant • Industry's Longest Warranty: Two years on parts * and 10 years on heat exchanger <p><small>*One year warranty standard. Second year warranty requires product registration. Other terms and conditions apply.</small></p>		<p>What's In The Box</p> <ul style="list-style-type: none"> • Accutemp Pre-heater • Adjustable Louver • Air Compressor, Integrated • Digital Thermostat • Easy Access Cleaning Cap • Flame Retention Head • Hour Meter • Low Fuel Cutoff Switch • Patented Metering Pump • Quick Connect Copper Fuel Lines • Specialized Spin-On Waste Oil Filter • Stainless Steel Barometric Damper • Stainless Steel Heat Exchanger • Swing-Away Burner 	



Wednesday, January 07, 2015

Fibertec Project Number: 65925
Project Identification: Edwards Chevrolet (N3961) /N3961
Submission Date: 12/22/2014

Mr. Joseph Scanlan
MDEQ/AQD - Lansing District Office
525 W. Allegan Street
Constitution Hall-3N
Lansing, MI 48909

Dear Mr. Scanlan,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/arp
Enclosures

1914 Holloway Drive
11766 E. Grand River
8660 S. Mackinaw Trail

Holt, MI 48842
Brighton, MI 48116
Cadillac, MI 49601

T: (517) 699-0345
T: (810) 220-3300
T: (231) 775-8368

F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584

Client Identification: MDEQ/AQD - Lansing District Office	Sample Description: Waste Oil	Chain of Custody: 00001
Client Project Name: Edwards Chevrolet (N3961)	Sample No: E1	Collect Date: 12/10/14
Client Project No: N3961	Sample Matrix: Oil	Collect Time: NA

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable †: Parameter not included in NELAC Scope of Analysis.

Ignitability (Waste Characterization) (EPA 1010A)

Allquot ID: 65925-001

Matrix: Oil

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ignitability	160	J,H	°F	45	1.0	NA	NA	12/30/14	WK14L30A	JEB

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)

Allquot ID: 65925-001

Matrix: Oil

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Arsenic	U		µg/kg	100	10	12/24/14	PT14L24B	12/26/14	T214L26B	JLP
2. Cadmium	U		µg/kg	50	10	12/24/14	PT14L24B	12/26/14	T214L26B	JLP
3. Lead	U		µg/kg	1000	10	12/24/14	PT14L24B	12/26/14	T214L26B	JLP

Total Halogens (SW 846 9076 (MLI))

Allquot ID: 65925-001A

Matrix: Oil

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
† 1. Total Halogens	5200		mg/kg	21	1.0	NA	NA	01/05/15	NA	MA

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Definitions/ Qualifiers:

- A: Spike recovery or precision unusable due to dilution.
- B: The analyte was detected in the associated method blank.
- E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
- J: The concentration is an estimated value.
- M: Modified Method
- U: The analyte was not detected at or above the reporting limit.
- X: Matrix Interference has resulted in a raised reporting limit or distorted result.
- W: Results reported on a wet-weight basis.
- *: Value reported is outside QA limits

Exception Summary:

- H : Hold time exceeded.



Accreditation Number(s):

E-10395 (KS)

T104704518-13-1 (TX)

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