

DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION
ACTIVITY REPORT: Scheduled Inspection

N165626804

FACILITY: ALBRECHT SAND AND GRAVEL		SRN / ID: N1656
LOCATION: 3790 W. Sanilac Rd., SNOVER		DISTRICT: Saginaw Bay
CITY: SNOVER		COUNTY: SANILAC
CONTACT: James Albrecht , Plant Manager		ACTIVITY DATE: 07/23/2014
STAFF: Gina McCann	COMPLIANCE STATUS: Non Compliance	SOURCE CLASS: SM 208A
SUBJECT: Scheduled permit inspection. glm		
RESOLVED COMPLAINTS:		

See attached report.

NAME Gina L. McCannDATE 9/17/14SUPERVISOR C. Pare

I (gjm) conducted a scheduled inspection at Albrecht Sand and Gravel on July 23, 2014. I started at the plant office on M-46. I spoke with Laura Franzel, VP, and James Albrecht, owner. Mr. Albrecht and I visited the plant located at 3501 Cat Lake Road in Caro. This plant is a Bituma-Stor parallel flow plant rated at 250 ton per hour (TPH). The plant is operated under the approved PTI 547-87M.

I arrived at the plant at roughly 9:30 am. There was variable slight wind at the time, N/NE 5-10 mph, with an overcast sky. There were some blue visible emissions noticed from the stack. I asked Mr. Albrecht if the emissions were out of the ordinary and he said that it was common. I then asked when the bags in the bag house were last inspected and the facility's staff stated that they were recently changed. After the inspection I asked for maintenance records for the replaced bags and the facility was not able to produce them.

While this plant is rated at 250 TPH, it typically runs at approximately 150 tph, the production rate at the time of inspection. At the time of the inspection the plant was producing mix 20AAr. The bag house ΔP was 4" W.C. and the plant was using RAP, *see attached logs*. The plant was running on recycled used oil (RUO). The yard had been brined on July 17, 2014 as was noted in the plant log. The operator was able to provide did provide yard logs, fuel usage, production logs. Monthly and yearly records are tallied at the office, *see attached*.

A sample of the RUO was taken and sent to Fibertec Environmental Services for analysis, *see attached analysis*. The table below compares the lab results with permit limits. The lab results were in compliance with permit limits.

RUO Analysis

Contaminant	Limit	Units	Lab Results (7/25/14)
Arsenic	5.0	ppmw	*
Cadmium	2.0	ppmw	0.07
Chromium	10.0	ppmw	1.1
Lead	100.0	ppmw	15.0
PCBs	1.0	ppmw	*
Total Halogens	4000.0	ppmw	*
Sulfur	1.5	Weight %	0.216
Minimum Flash Point	100.0	°F	>206
Maximum Ash Content	1.0	Weight %	Not Analyzed
Acidity	Minimum pH=4 Maximum pH=10	N/A	Not Analyzed

* Non-Detect Results

Sulfur emissions, per MAERS reporting year ending 2013, was 14.29 TPY, which is under the permit limit of 24.8 TPY. The facility is not keeping the required sulfur emissions. In fact, the facility is out of compliance with the following conditions of the permit.

Process Description	Rule/Permit Condition Violated	Comments
Hot mix asphalt (HMA) facility	1.23, 1.24	Monthly and 12-month rolling time period emission calculation records of all criteria pollutants and HAPs
Hot mix asphalt (HMA) facility	1.15 a, b and c	CO monitored emissions
Hot mix asphalt (HMA) facility	1.21 b, d and e	Daily SO2 records
Hot mix asphalt (HMA) facility	1.8	Compliance Monitoring Plan (CMP) for RUO Characterization program in Appendix C- Sampling
Hot mix asphalt (HMA) facility	1.20	Maintenance records not kept- See Appendix B in permit
Hot mix asphalt (HMA) facility	1.29 c	Relocation notification not received

A violation notice has been sent and the facility has been in conversations with the Department on how to correct the violations and come back into compliance. Most of the violations are lack of recordkeeping.

The facility was able to produce records of HAPs as required in conditions 1.23 and 1.24 for 2004 and 2005, but has since stopped keeping records.

The Compliance Monitoring Plan (CMP) for RUO Characterization is not being utilized either and is also a violation of the permit.

The facility also reports under R208a which is being rescinded. The department has been working with the facility to determine Potential to Emit (PTE) emission data to determine permit options.

The department will continue to work with the facility to bring them into compliance.

1.22

Cat Lake Pit

Raw Material aggregate

Liquid Bit asphalt

Daily

Date	Type	Crush	1/2" Sand	RAP	2NS Sand	Fine Crush	1" Crush	Total Tons	A.C. Content	A.C. %	HOURS
06/12/14	20AA/Rap		748.00	130.70	178.70			1057.40	55.13	5.21%	7.30
06/13/14	20AA/Rap		942.70	135.30	220.40			1298.40	68.76	5.30%	9.00
06/16/14	20AA/Rap		1100.90	155.10	262.60			1518.60	80.19	5.28%	9.80
06/17/14	20AA/Rap		1186.80	107.20	268.50			1562.50	82.75	5.30%	9.80
06/19/14	20AA		1484.50		305.40			1789.90	99.34	5.55%	11.00
06/20/14	20AA/Rap		843.30	82.60	191.30			1117.20	59.17	5.30%	7.30
June Totals			6306.20	610.90	1426.90			8344.00	445.34		54.20

AM
7/23/2014

1.22

Cat Lake Pit

Raw aggregate

- BIT asphalt

Date	Type	Crush	1/2" Sand	RAP	2NS Sand	Fine Crush	1" Crush	Total Tons	A.C. Content	A.C. %	HOURS
06/23/14	20AA/Rap		904.10	96.70	211.90			1212.70	64.30	5.30%	7.00
06/24/14	20AA		631.70		158.60			790.30	44.38	5.62%	4.60
06/25/14	20AA		1139.00		285.30			1424.30	79.08	5.55%	8.80
06/26/14	20AA/Rap		1015.50	131.30	290.20			1437.00	74.67	5.20%	9.20
06/27/14	20AA/Rap		1193.00	143.30	317.80			1654.10	86.29	5.22%	9.90
06/30/14	20AA/Rap		1459.80	83.30	343.40			1886.50	100.86	5.35%	11.00
07/01/14	20AA/Rap		1364.70	80.60	299.50			1744.80	92.60	5.31%	10.70
07/02/14	20AA/Rap		883.70	93.00	211.20			1187.90	62.57	5.27%	7.70
07/07/14	20AA		1296.40		268.00			1564.40	85.66	5.48%	9.70
07/08/14	20AA		418.30		86.40			504.70	27.94	5.54%	3.10
07/09/14	20AA		1113.80		229.10			1342.90	73.16	5.45%	8.00
07/10/14	20AA		1386.10		285.20			1671.30	91.20	5.46%	10.30
07/11/14	20AA		1034.90		212.90			1247.80	68.03	5.45%	7.60
07/14/14	20AA		1373.50		282.50			1656.00	91.62	5.53%	10.60
07/15/14	20AA		1354.70		278.70			1633.40	85.67	5.24%	10.00
07/16/14	20AA		1442.60		296.90			1739.50	91.75	5.27%	10.50
07/17/14	20AA/Rap		1378.60	137.10	311.50			1827.20	90.78	4.97%	10.90
07/18/14	20AA/Rap		1491.50	62.90	318.30			1872.70	95.67	5.11%	11.00
07/21/14	20AA/Rap		1132.90	153.30	264.00			1550.20	77.42	4.99%	9.10
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
								0.00			
TOTAL			34627.20	2203.30	7805.20	0.00	0.00	44635.70	2374.33		278.10

7/23/2014
Jm

DEQ-AQD

SEP 15 2014

Saginaw Bay

May 2014

Total Plant Hours	<u>58</u>
Total Plant Tons	<u>9029</u>
Avg. Tons per Hour	<u>155.6</u>

Fuel Usage

Cat Loader	<u>385</u>
Gen Sets	<u> </u>
Tar Tanks #1	<u> </u>
Tar Tanks #2	<u> </u>

Average gal/plant hour of Production

Cat Loader	<u>6</u>
Plant - Gen Sets	<u>35</u>
Tar Tanks #1	<u> </u>
Tar Tanks #2	<u> </u>

Daily Mix Tons & Daily Conditions					
Date	Mix	Temp	Condition	Total Tons	Hours
5/12/2014					
5/13/2014	36A	80	sun & rain	1251	7.9
5/14/2014	36A	57	cloudy rain	1009	6.8
5/15/2014					
5/16/2014	36A	57	cloudy	1521	9.2
5/17/2014					
5/19/2014	36A	65	sun & clouds	1441	9.1
5/20/2014					
5/21/2014	36A	74	sun & clouds	1154	7.7
5/22/2014					
5/23/2014					
5/24/2014					
5/26/2014					
5/27/2014	20A gravel	75	sun & clouds		
5/28/2014	13A rap	70	sun & clouds	1509	9.3
5/29/2014	13A + 36A	74	sun & clouds	1144	8
5/30/2014					
5/31/2014					

rain 3:00
June
rain 3:30

Daily Meter Readings

Date	Fuel Used	Bit Used	Tons Made	Meter
5/12/2014				
5/13/2014		74.71	1251	
5/14/2014		60.59	1009	387742
5/15/2014				
5/16/2014	2075	87.34	1521	389817
5/17/2014				
5/19/2014	1923	85.39	1441	391740
5/20/2014				
5/21/2014		70.54	1154	393183
5/22/2014				
5/23/2014				
5/24/2014				
5/26/2014				
5/27/2014				
5/28/2014	1843	89.21	1509	395026
5/29/2014	1330	73.23	1144	396356
5/30/2014				
5/31/2014				

Daily Bit Received

Date	Load #1	Ticket #	Load #2	Ticket #	Load #3	Ticket #
5/12/2014						
5/13/2014	96,880	458161-153	96,120	15516		
5/14/2014	100,420	15521				
5/15/2014						
5/16/2014	100,620	458298-136				
5/17/2014						
5/18/2014						
5/19/2014	95,800	M015539	95,040	M015532		
5/20/2014	96,280	458 998 399-140				
5/21/2014						
5/22/2014						
5/23/2014						
5/24/2014						
5/25/2014						
5/26/2014						
5/27/2014	94,940	AIM9 75577				
5/28/2014						
5/29/2014	95,220	AIM9 78979	95,900	015574	94,740	AIM9 755363
5/30/2014						
5/31/2014						

Daily Fuel Received

Date	Fuel Type	Ticket #	Source	Fuel Type	Ticket #	Source
5/12/2014						
5/13/2014						
5/14/2014	10,420	16,821		12,000	68694	
5/15/2014						
5/16/2014						
5/17/2014						
5/19/2014						
5/20/2014						
5/21/2014	12,000	68695				
5/22/2014						
5/23/2014						
5/24/2014						
5/26/2014						
5/27/2014						
5/28/2014						
5/29/2014						
5/30/2014						
5/31/2014						

June 2014

Total Plant Hours	<u>128.5</u>
Total Plant Tons	<u>21203</u>
Avg. Tons per Hour	<u>165</u>

Fuel Usage

Cat Loader	_____
Gen Sets	_____
Tar Tanks #1	_____
Tar Tanks #2	_____

Average gal/plant hour of Production

Cat Loader	<u>7</u>
Plant - Gen Sets	<u>35</u>
Tar Tanks #1	_____
Tar Tanks #2	_____

~~BRINE~~ 6-23-14
BRINE

Daily Mix Tons & Daily Conditions					
Date	Mix	Temp	Condition	Total Tons	Hours
6/2/2014	36A	85	sun + clouds	1607	8.6
6/3/2014	36A	70	sun + clouds	1340	7.5
6/4/2014	36A	73	sun + clouds	1421	7.7
6/5/2014					
6/6/2014					
6/7/2014					
6/9/2014					
6/10/2014					
6/11/2014					
6/12/2014	20AA	77	sun + clouds	1063	7.3
6/13/2014	20AA	74 60	sun + cloudy	1303	9.0
6/14/2014					
6/16/2014	20AA	84	sun + clouds	1526	9.8
6/17/2014	20AA	84	sun + clouds	1568	9.8
6/18/2014	rain all day				
6/19/2014	20AA	76	sun + clouds	1794	10.0
6/20/2014	20AAr	72	^{SPARKS} sun + clouds	1121	7.3
6/21/2014					
6/23/2014	20AAr	70	cloudy ^{rain} 10:00 11:00	1221	7.0
6/24/2014	20AA	70	cloudy / rain	796	4.6
6/25/2014	20AA	72	cloudy ^{rain} 3:00	1433	8.8
6/26/2014	20AAr	80	sun + clouds	1447	9.2
6/27/2014	20AAr	84	sun + clouds	1665	9.9
6/28/2014	20AAr	88	sun + clouds	1898	11
6/30/2014					

Fog till
10:00

Daily Meter Readings				
Date	Fuel Used	Bit Used	Tons Made	Meter
6/2/2014		91.13	1607	396356
6/3/2014	3287	75.82	1340	3909643
6/4/2014		78.98	1421	
6/5/2014				
6/6/2014				
6/7/2014				
6/9/2014				
6/10/2014				
6/11/2014				
6/12/2014	2369	55.13	1063	402012
6/13/2014	1111	68.76	1303	403123
6/14/2014				
6/16/2014	1188	80.19	1526	404311
6/17/2014	1231	82.75	1568	405542
6/18/2014				
6/19/2014	1444	99.34	1794	406986
6/20/2014	584	59.17	1121	407570
6/21/2014				
6/23/2014	719	64.30	1221	408289
6/24/2014		44.38	796	
6/25/2014	1531	79.08	1433	409820
6/26/2014	1256	74.67	1447	411076
6/27/2014	835	86.29	1665	411911
6/28/2014				
6/30/2014	879	100.86	1898	412790

F

Daily Material Used								
Date	Mix	Sand	Fine Cr.	2NS	Stone	RAP	AC	Total Tons
6/2/2014	36A	960	111	370	159		91.13	1607
6/3/2014	36A	857	83	277	117		75.82	1340
6/4/2014	36A	935	85	285	113		78.98	1421
6/5/2014								
6/6/2014								
6/7/2014								
6/9/2014								
6/10/2014								
6/11/2014								
6/12/2014	20AA	748		179		130	55.13	1063
6/13/2014	20AA	972		220		135	68.76	1303
6/14/2014								
6/16/2014	20AA	1100		263		155	80.19	1526
6/17/2014	20AA	1187		269		107	82.75	1568
6/18/2014								
6/19/2014	20AA	1485		305			99.34	1794
6/20/2014	20AA	843		191		83	59.17	1121
6/21/2014								
6/23/2014	20AA	904		212		97	64.30	1221
6/24/2014	20AA	632		157			44.38	796
6/25/2014	20AA	1139		285			79.08	1433
6/26/2014	20AA	1016		290		131	74.67	1447
6/27/2014	20AA	1193		318		143	86.29	1665
6/28/2014								
6/30/2014	20AA	1460		343		83	100.86	1898

Daily Fuel Received

Date	Fuel Type	Ticket #	Source	Fuel Type	Ticket #	Source
6/2/2014						
6/3/2014						
6/4/2014						
6/5/2014						
6/6/2014						
6/7/2014						
6/9/2014						
6/10/2014						
6/11/2014						
6/12/2014						
6/13/2014	12,000	68697				
6/14/2014						
6/16/2014						
6/17/2014						
6/18/2014						
6/19/2014	2250	Gen (etc) 3398				
6/20/2014	12,000	32938				
6/21/2014						
6/23/2014						
6/24/2014						
6/25/2014						
6/26/2014	#2 Diesel Aravel	1380 419				
6/27/2014						
6/28/2014						
6/30/2014	12,000	68698				

Daily Bit Received						
Date	Load #1	Ticket #	Load #2	Ticket #	Load #3	Ticket #
6/1/2014						
6/2/2014	97,020	78982	95820	458790-153		
6/3/2014	95,660	115596				
6/4/2014						
6/5/2014						
6/6/2014						
6/7/2014						
6/8/2014						
6/9/2014						
6/10/2014						
6/11/2014	96,100	015642	102,140	015690		
6/12/2014	95,600	459223-163				
6/13/2014	95,860	459250-164				
6/14/2014						
6/15/2014						
6/16/2014	95,940	015661	96,160	015669		
6/17/2014	95,660	015674	95,420	459364-162		
6/18/2014	94,960	459431-164				
6/19/2014	95,260	459524-170				
6/20/2014	95,980	015686				
6/21/2014						
6/22/2014						
6/23/2014	95,960	015695	95,820	459650-174		
6/24/2014	95,780	459711-175				
6/25/2014	100,780	459750-176				
6/26/2014	95,880	015718				
6/27/2014	95,880	015722				
6/28/2014						
6/29/2014						
6/30/2014	95,640	015731	95,500	015729	95,900	459894-181

July 2014

Total Plant Hours	<u>184</u>
Total Plant Tons	<u>30338</u>
Avg. Tons per Hour	<u>164.88</u>

Fuel Usage

Cat Loader	_____
Gen Sets	_____
Tar Tanks #1	_____
Tar Tanks #2	_____

Average gal/plant hour of Production

Cat Loader	<u>7</u>
Plant - Gen Sets	<u>35</u>
Tar Tanks #1	_____
Tar Tanks #2	_____

~~Brine~~ 7-17-2014
Brine

Daily Mix Tons & Daily Conditions					
Date	Mix	Temp	Condition	Total Tons	Hours
7/1/2014	20AAr	81	sun & clouds	1754	10.7
7/2/2014	20AAr	76	sun & clouds	1200	7.7
7/3/2014					
7/7/2014	20AA	84	^{Delay 2 hrs} sun & clouds	1572	9.7
7/8/2014	20AA	76	cloudy ^{rain} 9:00	418 507	3.1
7/9/2014	20AA	74	cloudy	1345	8.0
7/10/2014	20AA	80	sun & clouds	1674	10.3
7/11/2014	20AA	81	sun & clouds	1250	7.6
7/12/2014					
7/14/2014	20AA	83	sun & clouds	1659	10.6
7/15/2014	20AA	74	^{rain} sun & clouds	1632	10
7/16/2014	20AA	68	sun & clouds	1738	10.5
7/17/2014	20AAr	76	sun & clouds	1828	10.9
7/18/2014	20AAr	80	sun & clouds	1867	11
7/19/2014					
7/21/2014	20AAr	86	sun & clouds	1548	9.1
7/22/2014	20AAr	89	sunshine	1549	9.8
7/23/2014	20AAr	70	sun cloudy	1284	7.8
7/24/2014	20AAr	76	sun & clouds	1683	9.6
7/25/2014	20AAr	75	sun & clouds	1669	9.4
7/26/2014					
7/28/2014	20AA	68	cloudy ^{light} rain	1549	9.7
7/29/2014	20AA	73	cloudy ^{sprinkle}	1563	9.7
7/30/2014	20AA	75	^{sprinkle} sun & clouds	1467	8.8
7/31/2014					

Daily Meter Readings				
Date	Fuel Used	Bit Used	Tons Made	Meter
7/1/2014		92.60	1754	414167
7/2/2014	882	62.57	1200	415049
7/3/2014				
7/7/2014	1194	85.66	1572	416243
7/8/2014		27.94	507	
7/9/2014	1624	73.16	1345	417867
7/10/2014	1244	91.20	1674	419105
7/11/2014	938	68.03	1250	420043
7/12/2014				
7/14/2014	1244	91.62	1659	421287
7/15/2014		85.67	1632	
7/16/2014	2506	91.75	1738	423793
7/17/2014	1245	90.78	1828	425038
7/18/2014	1202	95.67	1867	426240
7/19/2014				
7/21/2014	407	77.42	1548	
7/22/2014	1108	76.19	1549	
7/23/2014	987	63.30	1284	
7/24/2014	3617	82.06	1683	429857
7/25/2014	982	81.77	1669	430839
7/26/2014				
7/28/2014	904	83.29	1549	431743
7/29/2014	755	85.07	1563	432498
7/30/2014	796	79.63	1467	433294
7/31/2014				

Daily Fuel Received

Date	Fuel Type	Ticket #	Source	Fuel Type	Ticket #	Source
7/1/2014						
7/2/2014						
7/3/2014	1460 ^{Gen}		GUS 490			
7/7/2014	11,500	32939				
7/8/2014						
7/9/2014						
7/10/2014	844	Plant	378	GUSS		
7/11/2014						
7/12/2014						
7/14/2014						
7/15/2014	12,000	32940				
7/16/2014						
7/17/2014	1570	Plant	325	GUS		
7/18/2014						
7/19/2014						
7/21/2014	735	3560 Gen	12,000	32941		
7/22/2014	90,000	ms				
7/23/2014						
7/24/2014	1176	Gen.				
7/25/2014						
7/26/2014						
7/28/2014	12,500	32942				
7/29/2014						
7/30/2014						
7/31/2014	1560	Gen				

Daily Bit Received						
Date	Load #1	Ticket #	Load #2	Ticket #	Load #3	Ticket #
7/1/2014	96,120	459937-182	95,560	457921-182		
7/2/2014	95,560	015743				
7/3/2014						
7/4/2014						
7/5/2014						
7/6/2014						
7/7/2014	95,900	015755	96,820	015756		
7/8/2014	95,480	450081-189				
7/9/2014	97,240	015762				
7/10/2014	97,480	450161-191				
7/11/2014	97,300	015767	49.23	450212-192		
7/12/2014						
7/13/2014						
7/14/2014	97,280	015774	97,000	450305-195		
7/15/2014	97,660	015779	97,060	015781		
7/16/2014	97,180	450414-197	97,100	450432-197		
7/17/2014	97,600	015794				
7/18/2014	102,620	015806				
7/19/2014						
7/20/2014						
7/21/2014	96,840	450587-202	97,240	450605-202		
7/22/2014	96,680	450644-203	97,180	450684-203		
7/23/2014	96,660	450721-204	97,020	450742-204		
7/24/2014	97,500	450790-205				
7/25/2014	97,720	450849-206	97,000	450827-206		
7/26/2014						
7/27/2014						
7/28/2014	97,240	450905-209				
7/29/2014	96,840	450939-210	97,020	450954-210		
7/30/2014	96,860	450977-211				
7/31/2014						

Tuesday, September 16, 2014

Fibertec Project Number: 63412 Amended
Project Identification: Albrecht Sand & Gravel (N1656) /N1656
Submittal Date: 07/25/2014

Ms. Gina McCann
MDEQ/AQD - Saginaw Bay District Office
401 Ketchum Street
Suite B
Bay City, MI 48708

Dear Ms. McCann,

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.

Sulfur analysis was subcontracted to Mineral Labs, Inc..

Halogens analysis was subcontracted to Midwest Analytical Services, Inc..

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/atd
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 - Saginaw Bay District Office	Sample Description: Albrecht + Sand + Gravel (N1656)	Chain of Custody: 00001
Client Project Name: Albrecht Sand & Gravel (N1656)	Sample No: 1	Collect Date: 07/23/14
Client Project No: N1656	Sample Matrix: Oil	Collect Time: 11:30

Sample Comments:

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

Sulfur (ASTM D2622 (ML))						Aliquot ID: 63412-001A		Matrix: Oil		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Sulfur	0.216		%	0.000	1.0	NA	NA	08/13/14	NA	ML

Ignitability (Waste Characterization) (EPA 1010A)						Aliquot ID: 63412-001		Matrix: Oil		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Ignitability	>206		%F	45	1.0	NA	NA	07/30/14	WK14G30A	NRV

Trace Elements by ICP/MS (EPA 0200.2-M/EPA 6020A)						Aliquot ID: 63412-001		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	08/05/14	PT14H05B	08/05/14	T414H05B	JLH
2. Cadmium	70		µg/kg	50	10	08/05/14	PT14H05B	08/05/14	T414H05B	JLH
3. Chromium	1100		µg/kg	500	10	08/05/14	PT14H05B	08/05/14	T414H05B	JLH
4. Lead	16000		µg/kg	1000	10	08/05/14	PT14H05B	08/05/14	T414H05B	JLH

Polychlorinated Biphenyls (PCBs) (EPA 3580A/EPA 8082A)						Aliquot ID: 63412-001		Matrix: Oil		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	U	J,G-	mg/kg	1.0	2.0	07/31/14	PS14G31F	08/05/14	SA14H05A	BDA
2. Aroclor-1221	U	J,G-	mg/kg	1.0	2.0	07/31/14	PS14G31F	08/05/14	SA14H05A	BDA
3. Aroclor-1232	U	J,G-	mg/kg	1.0	2.0	07/31/14	PS14G31F	08/05/14	SA14H05A	BDA
4. Aroclor-1242	U	J,G-	mg/kg	1.0	2.0	07/31/14	PS14G31F	08/05/14	SA14H05A	BDA
5. Aroclor-1248	U	J,G-	mg/kg	1.0	2.0	07/31/14	PS14G31F	08/05/14	SA14H05A	BDA
6. Aroclor-1254	U	J,G-	mg/kg	1.0	2.0	07/31/14	PS14G31F	08/05/14	SA14H05A	BDA
7. Aroclor-1260	U	J,G-	mg/kg	1.0	2.0	07/31/14	PS14G31F	08/05/14	SA14H05A	BDA
‡ 8. Aroclor-1262	U	J,G-	mg/kg	1.0	2.0	07/31/14	PS14G31F	08/05/14	SA14H05A	BDA
‡ 9. Aroclor-1268	U	J,G-	mg/kg	1.0	2.0	07/31/14	PS14G31F	08/05/14	SA14H05A	BDA

Total Halogens (SW 846 9076)						Aliquot ID: 63412-001A		Matrix: Oil		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Total Halogens	U		mg/kg	21	1.0	NA	NA	07/29/14	NA	MA

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Cadillac, MI 49601

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T: (231) 775-8368

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

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:

- G-** : Recovery of the associated Surrogate Compound exceeds the lower control limit. Results may be biased low.



Accreditation Number(s):

E-10395 (KS)

T104704518-13-1 (TX)

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JARON CORPORATION

DEQ-AQD
petroleum marketer

FACSIMILE TRANSMISSION
TEL. 574 273 1681 FAX 574 273 1599
www.jaroncorp.com

AUG 19 2014

Saginaw Bay

TO: Jim Albrecht, Albrecht Sand & Gravel
FAX. NO.: 810 672 9811
FROM: Kevin Eastman
FAX. NO.: 239 573 2021
SUBJECT: Used Oil Burner Fuel Proposal
DATE: 04/12/12

Page 2 of 2

TYPICAL SPECIFICATIONS

(Actual product will vary batch to batch, but always be within MDEQ/EPA limits)

API Gravity @ 60F	27
Sulfur, D 4294	0.2
Ash, D 482	0.6
S & W, D 1796	<1.0
Flash Point, PMCC	>140
Pour Pt., D 97	< 0
Viscosity SSU @ 100F	225
BTU per gallon, gravity calculated	138,000 (Total)
Total Halogens, D 5384	<1000
Arsenic, SW-846-6020	<0.1
Cadmium, SW-846-6020	0.6
Chromium, SW-846-6020	1.35
Lead, SW-846-6020	30
PCBs, SW-846-8082	<2.0 (ND)



American Testing Technologies, Inc.

USHER OIL COMPANY
9000 Roselawn Avenue
Detroit, MI 48204

Date Received: 05/22/2013
Date Reported: 05/23/2013
Date Collected: 05/21/2013
Time Collected: 2:30 PM
Client ID #: Tank #23 Crankcase
Laboratory ID #: 052213-01

Certificate of Analysis

<u>Parameter</u>	<u>Results</u>	<u>Method</u>	<u>Date of Analysis</u>
Arsenic	<1.0 ppm	6010C	05/22/2013
Cadmium	<2.0 ppm	6010C	05/22/2013
Chromium	<5.0 ppm	6010C	05/22/2013
Lead	8.5 ppm	6010C	05/22/2013
PCBs	<1.0 ppm	8082	05/22/2013
Sulfur, Wt%	0.17 %	D 4294	05/22/2013
Total Halogens	775 ppm	9075	05/22/2013
Ash	0.7%	D 482-02	05/22/2013
BTU	✓ 133,000 Btu/gal	D 240-09	05/23/2013
BTU	18,200 Btu/lb	D 240-09	05/23/2013
Density	7.30 lb/gal	D 4052	05/22/2013
Flash Point	149 °F	D 93	05/22/2013
Viscosity@100°F	270 SUS	D 445	05/22/2013
% Oil	95 %	D1796	05/23/2013

Final report reviewed by:



Laboratory Manager

2 of 2

USHER OIL COMPANY

... safely recycling since 1930

ANALYSIS

DATE: April 9, 2013

TANK: # 19

DESCRIPTION: CRANKCASE OIL

Laboratory ID# 040913-01

PARAMETER:

SAMPLE RESULT:

WATER	4.0 %
BTU	>135,000/gallon
FLASH POINT	>200 F
SULFUR	3187 ppm
CHLORINE method 9075	691 ppm
pH	7.0 S.U.
As	< 1.0 ppm
Cd	< 2.0 ppm
Cr	< 5.0 ppm
Pb	7.5 ppm
SP. GR.	7.25 lbs. /gal
PCB	< 1.0 ppm
SILICON	60 ppm

NOVA Chemicals (Canada) Ltd.

Concessions Operations

ULTRA LOW SULPHUR DIESEL - CERTIFICATE OF ANALYSIS
CUSTOMER: Trucks, Domestic & Export

Source: nr2FuelOil/Tk14 @ 0943

Sample Date: January 18, 2014

Report Date: January 20, 2014

DEQ-AQD
 AUG 19 2014
 Green Bay

CHARACTERISTIC	TEST PROCEDURE	SPECIFICATION	RESULT	INITIAL
Bottom Sediment & Water Vol %	ASTM D 1796	0.05 Max	<0.050	C.R.
Cloud Point °C	ASTM D 2500	See attached table	-25	C.R.
Colour (ASTM)	ASTM D 1500	2.5 Max	0.5	C.R.
Copper Strip Corrosion	ASTM D 130	1 Max	1a	C.R.
Density @ 15 °C kg/m ³	ASTM D 4052	Report	847.0	C.R.
90 vol. % Recovered °C	ASTM D 86	380 Max	318.5	C.R.
Conductivity @ 20°C pS/m	ASTM D 2624	100 Min, Apr 16 - Sep 15 200 Min, Sep 16 - Apr 15	650	C.R.
Flash Point, PMCC °C	ASTM D 93	43 Min	72	C.R.
MCR (On 10 % Residue) wt. %	ASTM D 4530	0.16 Max	<0.05	C.R.
Sulphur (Total) wt. ppm	ASTM D 5453	16.0 Max	6	S.P.
Viscosity (Kinematic @ 40°C) cSt	ASTM D 445	1.70 Min - 4.10 Max	2.90	C.R.
Ash wt. %	ASTM D 482	0.010 Max	<0.001	C.R.
Celane Index	ASTM D 976	40 Min	46.5	C.R.
Total Acid Number mg KOH/g	ASTM 974	0.10 Max	0.053	C.R.
Haze Rating @4°C - Sept. 15 - Apr. 15 @15°C - Apr. 16 - Sept. 15	CAN/CGSB - 3.0 No.28.8	2 Max	1	C.R.
Lubricity	CAN/CGSB - 3.517, Para 6.22.1, 6.22.2, 6.22.3, 6.22.4 or 6.22.5	Acceptable (1)		

Meets Spec	3	Fails Spec	Waiver #	Signature: <i>Andreas Reuter</i>
Comments:				Date: January 20, 2014

- Notes: (1) Based on Suncor CoA results
 (2) Product is referred to as S-15 Diesel by ASTM
 General: (a) Product meets requirements of CAN/CGSB-3517 Automotive Low Sulphur Diesel Fuel for Type B-ULS

PRODUCT NAME: ULTRA LOW SULPHUR NO. 2 DIESEL FUEL - ONTARIO

FORM: NCS10156.04

DATE: 1609068



American Testing Technologies, Inc.


USHER OIL COMPANY
9000 Roselawn Avenue
Detroit, MI 48204

Date Received: 05/25/2013
Date Reported: 05/28/2013
Date Collected: 05/24/2013
Time Collected: 4:00 PM
Client ID #: Tank #21 Crankcase
Laboratory ID #: 052513-02

Certificate of Analysis

<u>Parameter</u>	<u>Results</u>	<u>Method</u>	<u>Date of Analysis</u>
Arsenic	<1.0 ppm	6010C	05/28/2013
Cadmium	<2.0 ppm	6010C	05/28/2013
Chromium	<5.0 ppm	6010C	05/28/2013
Lead	13 ppm	6010C	05/28/2013
Silicon	110 ppm	6010C	05/28/2013
PCBs	<1.0 ppm	8082	05/28/2013
Density	7.30 lb/gal	D 4052	05/28/2013

Final report reviewed by:



Laboratory Manager

2 of 2



American Tasting Technologies, Inc.

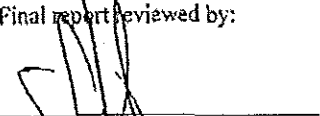
USHER OIL COMPANY
 9000 Roselawn Avenue
 Detroit, MI 48204

Date Received: 04/09/2013
 Date Reported: 004/09/2013
 Date Collected: 04/06/2013
 Time Collected: 11:00 AM
 Client ID #: Tank #19 Crankcase
 Laboratory ID #: 040913-01

Certificate of Analysis

<u>Parameter</u>	<u>Results</u>	<u>Method</u>	<u>Date of Analysis</u>
Arsenic	<1.0 ppm	6010C	04/09/2013
Cadmium	<2.0 ppm	6010C	04/09/2013
Chromium	<5.0 ppm	6010C	04/09/2013
Lead	7.5 ppm	6010C	04/09/2013
Silicon	60 ppm	6010C	04/09/2013
PCBs	<1.0 ppm	8082	04/09/2013
Density	7.25 lb/gal	D 4052	04/09/2013

Final report reviewed by:



 Laboratory Manager

USHER

OIL COMPANY

... safely recycling since 1930

ANALYSIS

DATE: May 25, 2013

TANK: # 21

DESCRIPTION: CRANKCASE OIL

Laboratory ID# 052513-02

PARAMETER:

SAMPLE RESULT:

WATER	2.0 %
BTU ✓	>135,000/gallon ✓
FLASH POINT	>200 F
SULFUR	1791ppm
CHLORINE method 9075	882 ppm
pH	7.0 S.U.
As	< 1.0 ppm
Cd	< 2.0 ppm
Cr	< 5.0 ppm
Pb	13.0 ppm
SP. GR.	7.30 lbs. /gal
PCB	< 1.0 ppm
SILICON	110 ppm

989-635-7844
800-575-5537
Fax: 989-635-3003

Phillips Oil & Propane
5567 Trembly - P.O. Box 95 • Decker, MI 48426
"Quality is Remembered Long After Price is Forgotten"

INVOICE

3355

PRODUCT DELIVERED:
#2 FUEL OIL
PREMIUM OFF-ROAD DIESEL

CUSTOMER: _____
ADDRESS: _____ DATE: _____

NOTICE: Any product checked above is
rated fuel for off-road use only. Penalty for
taxable use. No highway vehicles, off-
road only. NON-TAXABLE USE ONLY.

PRODUCT	UNITS	PRICE	AMOUNT	
Asphalt	2105	3.219	6776	00
GRAVEL	738		2375	62
	2843			
FEDERAL ROAD TAX				
STATE ROAD TAX				
SALES TAX				
PRE PAID SALES TAX				
PLEASE PAY FROM THIS INVOICE			TOTAL	

K1 - KEROSENE
PREMIUM ON-ROAD ULS DIESEL
L.P. - PROPANE

NL Gas Prem NL Rec 90

Driver: _____

EXEMPTION STATUS:

Government Use
 Industrial Use
 Resale
 Farm

TERMS: 30 DAYS NET
After 30 days, a Service Charge of 1½% per month (18% Annually) will be added.
By signing below, user verifies that any exemption shown on this invoice is accurate
and reflects current information.
 CASH SALE CHARGE SALE CHECK
CUSTOMER: _____

METER READING - BEFORE AND AFTER DELIVERY

989-635-7844
800-575-5537
Fax: 989-635-3003

Phillips Oil & Propane
5567 Trembly - P.O. Box 95 • Decker, MI 48426
"Quality is Remembered Long After Price is Forgotten"

INVOICE

3398

PRODUCT DELIVERED:
#2 FUEL OIL
PREMIUM OFF-ROAD DIESEL

CUSTOMER: _____
ADDRESS: _____ DATE: _____

NOTICE: Any product checked above is
rated fuel for off-road use only. Penalty for
taxable use. No highway vehicles, off-
road only. NON-TAXABLE USE ONLY.

PRODUCT	UNITS	PRICE	AMOUNT	
ASPHALT	1800	3.219	5794	20
GRAVEL	450		1449	55
FEDERAL ROAD TAX				
STATE ROAD TAX				
SALES TAX				
PRE PAID SALES TAX				
PLEASE PAY FROM THIS INVOICE			TOTAL	

K1 - KEROSENE
PREMIUM ON-ROAD ULS DIESEL
L.P. - PROPANE

NL Gas Prem NL Rec 90

Driver: _____

EXEMPTION STATUS:

Government Use
 Industrial Use
 Resale
 Farm

TERMS: 30 DAYS NET
After 30 days, a Service Charge of 1½% per month (18% Annually) will be added.
By signing below, user verifies that any exemption shown on this invoice is accurate
and reflects current information.
 CASH SALE CHARGE SALE CHECK
CUSTOMER: _____

METER READING - BEFORE AND AFTER DELIVERY

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 800-675-5537
 Fax: 989-635-3003

Phillips Oil & Propane
 5567 Trembly - P.O. Box 95 • Decker, MI 48426
 "Quality is Remembered Long After Price is Forgotten"

INVOICE

3411

PRODUCT DELIVERED:
 #2 FUEL OIL
 PREMIUM OFF-ROAD DIESEL

CUSTOMER: _____
 ADDRESS: _____ DATE: _____

NOTICE: Any product checked above is dyed fuel for off-road use only. Penalty for taxable use. No highway vehicles, off-road only. NON-TAXABLE USE ONLY.

PRODUCT	UNITS	PRICE	AMOUNT	
ASphalt	1380	3.319	45 80	22
GLAUCI			1390	66
FEDERAL ROAD TAX				
STATE ROAD TAX				
SALES TAX				
PRE PAID SALES TAX				
PLEASE PAY FROM THIS INVOICE		TOTAL		

K1 - KEROSENE
 PREMIUM ON-ROAD ULS DIESEL
 L.P. - PROPANE

 NL Gas Prem NL Rec 90

Driver: _____

TAX EXEMPTION STATUS:
 Government Use
 Industrial Use
 Resale
 Farm

TERMS: 30 DAYS NET
 After 30 days, a Service Charge of 1½% per month (18% Annually) will be added.
 By signing below, user verifies that any exemption shown on this invoice is accurate and reflects current information.
 CASH SALE CHARGE SALE CHECK
 CUSTOMER: _____

MELER READING - BEFORE ANNUAL DELIVERY

DEQ-AQD

AUG 19 2014

Saginaw Bay