Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
3610 Park Central Blvd N
Pompano Beach, FL 33064
954-582-4300

January 10, 2014

James E. Hooper
Pantropic Power Inc
8205 NW 58th St.
Miami, FL 33166

RE: Project: Used Oil
Pace Project No.: 35120874

Dear James Hooper:
Enclosed are the analytical results for sample(s) received by the laboratory on December 26, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Terrence Anderson

terrence.anderson@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
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CERTIFICATIONS

Project: Used Oil
Pace Project No.: 35120874

Ormond Beach Certification IDs
8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Health and Social Services
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Department of the Environment
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity
Missouri Certification #: 236
Montana Certification #: Cert 0074
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Department of Health and Environmental Control
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

Asheville Certification IDs
2225 Riverside Dr., Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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SAMPLE SUMMARY

Project: Used Oil
Pace Project No.: 35120874

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35120874001	Used Oil	Solid	12/26/13 09:00	12/26/13 22:50

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SAMPLE ANALYTE COUNT

Project: Used Oil
Pace Project No.: 35120874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35120874001	Used Oil	EPA 6010	TAP	4	PASI-O
		EPA 1010	KHC	1	PASI-O
		ASTM D4239-05	ANS	1	PASI-A

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ANALYTICAL RESULTS

Project: Used Oil
Pace Project No.: 35120874

Sample: Used Oil **Lab ID: 35120874001** Collected: 12/26/13 09:00 Received: 12/26/13 22:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**0.46U**	mg/kg	0.91	0.46	1	12/30/13 13:10	12/31/13 17:39	7440-38-2	
Cadmium	**0.15**	mg/kg	0.091	0.046	1	12/30/13 13:10	12/31/13 17:39	7440-43-9	
Chromium	**0.23U**	mg/kg	0.46	0.23	1	12/30/13 13:10	12/31/13 17:39	7440-47-3	
Lead	**1.1**	mg/kg	0.91	0.46	1	12/30/13 13:10	12/31/13 17:39	7439-92-1	
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010								
Flashpoint	**>149.64**	deg F	1.0	1.0	1		01/08/14 09:00		
ASTM D4239-05 Sulfur	Analytical Method: ASTM D4239-05								
Sulfur	**0.387**	% (w/w)	0.020		1		01/09/14 09:50		N2

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QUALITY CONTROL DATA

Project: Used Oil
Pace Project No.: 35120874

QC Batch: MPRP/16458
QC Batch Method: EPA 3050
Analysis Method: EPA 6010
Analysis Description: 6010 MET Solid
Associated Lab Samples: 35120874001

METHOD BLANK: 798393 Matrix: Solid
Associated Lab Samples: 35120874001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	0.25U	0.50	12/31/13 16:15	
Cadmium	mg/kg	0.025U	0.050	12/31/13 16:15	
Chromium	mg/kg	0.13U	0.25	12/31/13 16:15	
Lead	mg/kg	0.25U	0.50	12/31/13 16:15	

LABORATORY CONTROL SAMPLE: 798394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	12.5	12.5	100	80-120	
Cadmium	mg/kg	1.3	1.3	104	80-120	
Chromium	mg/kg	12.5	13.0	104	80-120	
Lead	mg/kg	12.5	13.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 798395 798396

Parameter	Units	35118287001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	0.27U	13.6	13.5	13.3	13.3	97	97	75-125	.5	20	
Cadmium	mg/kg	0.027U	1.4	1.4	1.4	1.4	103	103	75-125	.4	20	
Chromium	mg/kg	0.65	13.6	13.5	15.2	15.2	107	107	75-125	.1	20	
Lead	mg/kg	145	13.6	13.5	135	142	-71	-22	75-125	5	20	J(M1)

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QUALITY CONTROL DATA

Project: Used Oil
Pace Project No.: 35120874

QC Batch: WET/22822
QC Batch Method: EPA 1010
Analysis Method: EPA 1010
Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 35120874001

SAMPLE DUPLICATE: 802160

Parameter	Units	35120874001 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	>149.64	>149.64			

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QUALIFIERS

Project: Used Oil
Pace Project No.: 35120874

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-O	Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

J(M1)	Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold TNI accreditation for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Used Oil
Pace Project No.: 35120874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35120874001	**Used Oil**	EPA 3050	MPRP/16458	EPA 6010	ICP/10211
35120874001	**Used Oil**	EPA 1010	WET/22822		
35120874001	**Used Oil**	ASTM D4239-05	WET/28956		

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WO# : 35120874

35120874

Y RECORD

Quote:_____ Page___of___

Company Name:	Pantropic Power PO#
Address:	
City:	State: Zip:
Attn:	Fax#
email:	Phone:
Project Name	Proj #
Sampler Signature	Circle One Event: Daily Weekly Monthly Quarterly Semi-Annual Annual N/A

LAB ANALYSIS

Sample #	Sample ID	Collect Date	Collect Time	Matrix Code*	Field Filtered	Integrity (Y/N)	Total # of containers	Parameters: 8082 PCB	Flashpoint	Metals As, Cd, Cr, Pb	Sulfur	TOX				EXAMPLE Diss. Lead 6010
								Sample								
								TRC								
								pH								
								Pres. Code								
								# of Containers								1
								Bottle Type								16oz P
1	Used Oil	12/26	9:00				1									
2																
3																
4																
5																
6																
7																
8																
9																
10																

Container Type Codes

AV	Amber Vial	ES	Encore Sampler
CV	Clear Vial	PPV	Prepreserved vial
P	Plastic	PL C	Plastic container
AL	Amber Liter	PL J	Plastic Jar
CL	Clear Liter	Z	Ziploc bag
AP	Amber Plastic	TB	Tedlar bag
AG	Amber Glass	WP	Whirl pak
SJ	Soil Jar	G	Gallon Jug
Other		TC	Terra-core

PPV Prepreserved vial
Size(s): 2oz, 4oz, 8oz, 16oz, 32oz or 1L, other_____
40ml 500ml 250ml 125 ml
Example: 4ozP = 4oz Plastic, 8ozSJ= 8oz Soil Jar

Matrix Codes

SD	Solid Waste	OL	Oil
GW	Ground Water	SL	Sludge
EFF	Effluent	SO	Soil Sediment
APW	Analyte Free H20	AQ	Aqueous
WW	Waste Water	NA	Nonaqueous
DW	Drinking Water	PE	Petroleum
SW	Surface Water	O	Other_____ (Please specify)
ML	Misc. Liquid		

Preservative Type Codes

A. None	E. HCL	I. Ice
B. HNO_3	F. MeOH	J. MCAA
C. H_2SO_4	G. $Na_2S_2O_3$	K. Zn Acetate
D. NaOH	H. $NaHSO_4$	O. Other

REMARKS

2795

Standard: Y N
RUSH: Today 1D 2D 3D 4D 5D ___

Short Hold: Y____ N____

Circle QA/QC Report Level: 1 2 3 4 CLP AFCEE QAPP Other_____

EDD (Fees May Apply): ADaPT SEDD ERPIMS TSV CSV Other

COC Condition: OK Incomplete

Required State Certification: FL GA SC NC NJ PA LA TX IL

Coolers #'s - Temp °C: 1 2 3 4 5

Item	Relinquished by	Affiliation	Date	Time	Received by	Affiliation	Date	Time
1			12/26/13	12:05		PACE	12/26/13	12:05
2		PACE	12/26/13	10:30		PACE	12/26/13	2250
3								
4								

	YES	NO	N/A
Non-Conformance Found?			✓
Samples INTACT upon arrival?	✓		
Received on Wet Ice?	✓		
Proper Preservatives Indicated?	✓		
Received within holding time?	✓		
Custody seals intact?		✓	
Volatiles rec'd without headspace?			✓
Proper Containers Used?	✓		

Pompano Lab 954-582-4300

Revision: F-ALL-G-007- Rev.00

C.O.C. Serial # 44396

Pace Analytical	Document Name: Sample Condition Upon Receipt Form	Document Revised: October 9, 2013
	Document No.: F-FL-C-007 rev. 05	Issuing Authorities: Pace Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number:

Client Name: Pantropic Power Project # 35120874

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace ☐ Other

Tracking #

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals Intact: ☐ yes ☑ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Date and initials of person examining contents: 12/27/13 (W)

Thermometer Used #1 D69 #2 37 Type of Ice: (Wet) Blue None

Cooler Temperature °C #1 4.3 (Visual) -0 (Correction Factor) 4.3 (Actual) #2 3.7 3.7

(Temp should be above freezing to 6°C). If below 0°C, was sample frozen? ☐ Yes ☐ No

Receipt of samples satisfactory: ☐ Yes ☐ No Rush TAT requested on COC:

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	☐
Chain of Custody Filled Out	☐
Relinquished Signature & Sampler Name COC	☐
Samples Arrived within Hold Time	☐
Sufficient Volume	☐
Correct Containers Used	☐
Containers Intact	☐
Sample Labels match COC (sample IDs & date/time of collection)	☐ No Labels: ☐ No Time/Date on Labels: ☐
All containers needing preservation are found to be in compliance with EPA recommendation.	☐
No Headspace in VOA Vials (>6mm):	☐

Client Notification/ Resolution:

Person Contacted: Date/Time:

Comments/ Resolution (use back for additional comments):

Project Manager Review: Date:

Finished Product Information Only

F.P. Sample ID:

Production Code:

Date/Time Opened:

Number of Unopened Bottles Remaining:

Extra Sample in Shed: Yes No

Size & Qty of Bottles Received

_____ x 5 Gal
_____ x 2.5 Gal
_____ x 1 Gal
_____ x 1 Liter
_____ x 500 mL
_____ x 250 mL
_____ x Other: