

OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend WEAR

current

history1

historv2

2015 PETERBILT 1149

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (12 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

📥 Wear

The copper level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

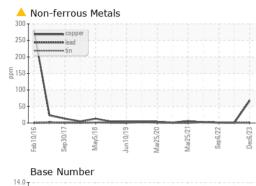
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

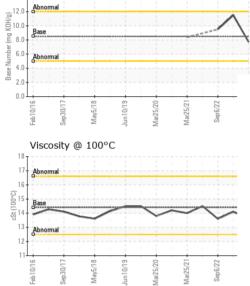
Sample Date Client Info 06 Dec 2023 11 Sep 2022 06 Sep 2022 Machine Age mis Client Info 0 275869 269498 Oil Age mis Client Info 0 450 450 Sample Status Client Info N/A N/A N/A N/A N/A CONTAMINATION method limit/base current history1 fibrory2 Fuel WC Method >5 <1.0		ATION	method	limit/base	current	history1	history2
Machine Age mis Client Info 0 275869 269498 Dil Age mis Client Info 0 450 450 Dil Age mis Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A CONTAMINATION method imit/base current history1 history2 Fuel WC Method >5 <1.0 <1.0 <1.0 Water WC Method >5 <1.0 <1.0 <1.0 Water WC Method >5.2 NEG NEG NEG NEG On ppm ASTM D5155m >2 0 0 0 Nickel ppm ASTM D5155m >2 0 0 0 Silver ppm ASTM D5155m >2 0 0 0 Silver ppm ASTM D5155m >2 0 0 0 Copper ppm ASTM D5155m >2 0 0 0 Astmony ppm	Sample Number		Client Info		WC0871028	WC0694229	WC0603397
Oil Age mis Client Info 0 450 450 Oil Changed Client Info N/A N/A N/A N/A Sample Status Image Client Info N/A ABNORMAL NORMAL NORMAL CONTAMINATION method imit/base current history1 history2 Fuel WC Method >5 <1.0	Sample Date		Client Info		06 Dec 2023	11 Sep 2022	06 Sep 2022
Oil ChangedClient InfoN/AN/AN/AN/ASample StatusIIIABNORIVALNORMALNORMALCONTAMINATIONmethodIlmit/basecurrenthistory1history2FuelWC Method>5<1.0	Machine Age	mls	Client Info		0	275869	269498
Sample Status Method Imil/base current NoRMAL NORMAL CONTAMINATION method imil/base current history1 history2 Fuel WC Method >5 <1.0	Oil Age	mls	Client Info		0	450	450
CONTAMINATION method limit/base current history1 history2 Fuel WC Method >5 <1.0	Oil Changed		Client Info		N/A	N/A	N/A
Fuel WC Method >5 <1.0 <1.0 <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >110 40 14 17 Chromium ppm ASTM D5185m >2 <1	Sample Status				ABNORMAL	NORMAL	NORMAL
Water WC Method >0.2 NEG NEG NEG NEG Glycol WC Method Imit/base current history1 history2 Iron ppm ASTM D5185m >110 40 14 17 Chromium ppm ASTM D5185m >2 <1 0 0 Titanium ppm ASTM D5185m >2 <1 0 0 Sliver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 Copper ppm ASTM D5185m >4 <1 <1 <1 Antimony ppm ASTM D5185m 0 0 0 0 Cadmium ppm ASTM D5185m 250 <1 9 7 Barium ppm ASTM D5185m 100 0 <1	CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol WC Method NEG NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >110 40 14 17 Chromium ppm ASTM D5185m >4 2 <1	Fuel		WC Method	>5	<1.0	<1.0	<1.0
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >110 40 14 17 Chromium ppm ASTM D5185m >2 <1	Water		WC Method	>0.2	NEG	NEG	NEG
Iron ppm ASTM D5185m >110 40 14 17 Chromium ppm ASTM D5185m >4 2 <1	Glycol		WC Method		NEG	NEG	NEG
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Nickel ppm ASTM D5185m >2 <1 0 0 Titanium ppm ASTM D5185m <	-				-		
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Silver ppm ASTM D5185m >2 0 0 0 Aluminum ppm ASTM D5185m >25 4 1 2 Lead ppm ASTM D5185m >45 <1 <1 2 Copper ppm ASTM D5185m >45 <1 <1 2 Antimony ppm ASTM D5185m >4 <1 <1 1 Antimony ppm ASTM D5185m >4 <1 <1 <1 Vanadium ppm ASTM D5185m <4 <1 <1 <1 <1 Vanadium ppm ASTM D5185m <4 <1 0 0 0 Cadmium ppm ASTM D5185m 100 53 62 61 Manganese ppm ASTM D5185m 100 53 62 61 Manganese ppm ASTM D5185m 100 53 62 61 Manganesium ppm ASTM D5185m	Titanium						
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Tin ppm ASTM D5185m >4 <1 <1 <1 Antimony ppm ASTM D5185m Image of the second of the	Copper		ASTM D5185m	>85	<u> </u>	<1	1
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Cadmium ppm ASTM D5185m <1 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 250 <1 9 7 Barium ppm ASTM D5185m 10 0 0 <1 Molybdenum ppm ASTM D5185m 100 53 62 61 Manganese ppm ASTM D5185m 100 53 62 61 Magnesium ppm ASTM D5185m 100 53 62 61 Magnesium ppm ASTM D5185m 100 53 62 61 Magnesium ppm ASTM D5185m 3000 957 1123 1209 Phosphorus ppm ASTM D5185m 1350 1146 1208 1235 Sulfur ppm ASTM D5185m 230 9 4 5 Solicon ppm ASTM D5185m 20 3	Antimony	ppm	ASTM D5185m				
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Barium ppm ASTM D5185m 10 0 0 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 100 53 62 61 Manganese ppm ASTM D5185m <1	Boron	nnm	ASTM D5185m	250	<1	9	7
Manganese ppm ASTM D5185m <1 <1 <1 <1 Magnesium ppm ASTM D5185m 450 801 931 882 Calcium ppm ASTM D5185m 3000 957 1123 1209 Phosphorus ppm ASTM D5185m 1150 934 1051 1011 Zinc ppm ASTM D5185m 1350 1146 1208 1235 Sulfur ppm ASTM D5185m 4250 2576 3570 3089 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 9 4 5 Sodium ppm ASTM D5185m >20 3 <1	20.0	ppin					
Magnesium ppm ASTM D5185m 450 801 931 882 Calcium ppm ASTM D5185m 3000 957 1123 1209 Phosphorus ppm ASTM D5185m 1150 934 1051 1011 Zinc ppm ASTM D5185m 1350 1146 1208 1235 Sulfur ppm ASTM D5185m 4250 2576 3570 3089 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 9 4 5 Sodium ppm ASTM D5185m >30 9 4 5 Sodium ppm ASTM D5185m >30 9 4 5 Sodium ppm ASTM D5185m >158 10 2 0 Potassium ppm ASTM D5185m >20 3 <1	Barium			10	0	0	<1
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Zinc ppm ASTM D5185m 1350 1146 1208 1235 Sulfur ppm ASTM D5185m 4250 2576 3570 3089 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 9 4 5 Sodium ppm ASTM D5185m >158 10 2 0 Potassium ppm ASTM D5185m >20 3 <1	Barium Molybdenum	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	100	53 <1	62 <1	61 <1
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CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >30 9 4 5 Sodium ppm ASTM D5185m >158 10 2 0 Potassium ppm ASTM D5185m >20 3 <1	Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	100 450 3000	53 <1 801 957	62 <1 931 1123	61 <1 882 1209
Silicon ppm ASTM D5185m >30 9 4 5 Sodium ppm ASTM D5185m >158 10 2 0 Potassium ppm ASTM D5185m >20 3 <1	Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	100 450 3000 1150	53 <1 801 957 934	62 <1 931 1123 1051	61 <1 882 1209 1011
Sodium ppm ASTM D5185m >158 10 2 0 Potassium ppm ASTM D5185m >20 3 <1	Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	100 450 3000 1150 1350	53 <1 801 957 934 1146	62 <1 931 1123 1051 1208	61 <1 882 1209 1011 1235
Potassium ppm ASTM D5185m >20 3 <1 5 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 0.1 0.5 Nitration Abs/cm *ASTM D7624 >20 8.3 7.1 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.3 20.9 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 15.7 17.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.7 11.5 9.5	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	100 450 3000 1150 1350 4250	53 <1 801 957 934 1146 2576	62 <1 931 1123 1051 1208 3570	61 <1 882 1209 1011 1235 3089
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.3 0.1 0.5 Nitration Abs/cm *ASTM D7624 >20 8.3 7.1 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.3 20.9 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 15.7 17.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.7 11.5 9.5	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	100 450 3000 1150 1350 4250 limit/base	53 <1 801 957 934 1146 2576 current	62 <1 931 1123 1051 1208 3570 history1	61 <1 882 1209 1011 1235 3089 history2
Soot % % *ASTM D7844 >3 0.3 0.1 0.5 Nitration Abs/cm *ASTM D7624 >20 8.3 7.1 10.6 Sulfation Abs/.1mm *ASTM D7415 >30 19.3 20.9 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 15.7 17.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.7 11.5 9.5	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	100 450 3000 1150 1350 4250 limit/base >30	53 <1 801 957 934 1146 2576 current 9	62 <1 931 1123 1051 1208 3570 history1 4	61 <1 882 1209 1011 1235 3089 history2 5
Nitration Abs/cm *ASTM D7624 >20 8.3 7.1 10.6 Sulfation Abs/.1mm *ASTM D7624 >30 19.3 20.9 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 15.7 17.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.7 11.5 9.5	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	100 450 3000 1150 1350 4250 limit/base >30 >158	53 <1 801 957 934 1146 2576 current 9 10	62 <1 931 1123 1051 1208 3570 history1 4 2	61 <1 882 1209 1011 1235 3089 history2 5 0
Sulfation Abs/.1mm *ASTM D7415 >30 19.3 20.9 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 15.7 17.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.7 11.5 9.5	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	100 450 3000 1150 1350 4250 limit/base >30 >158 >20	53 <1 801 957 934 1146 2576 current 9 10 3	62 <1 931 1123 1051 1208 3570 history1 4 2 <1	61 <1 882 1209 1011 1235 3089 history2 5 0 5
FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 15.1 15.7 17.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.7 11.5 9.5	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	100 450 3000 1150 1350 4250 iimit/base >30 >158 >20 iimit/base	53 <1 801 957 934 1146 2576 current 9 10 3 current	62 <1 931 1123 1051 1208 3570 history1 4 2 <1 kistory1	61 <1 882 1209 1011 1235 3089 history2 5 0 5 5 history2
Oxidation Abs/.1mm *ASTM D7414 >25 15.1 15.7 17.8 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.7 11.5 9.5	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	100 450 3000 1150 1350 4250 limit/base >30 >158 >20 limit/base >3	53 <1 801 957 934 1146 2576 current 9 10 3 current 0.3	62 <1 931 1123 1051 1208 3570 history1 4 2 <1 4 2 <1 history1 0.1	61 <1 882 1209 1011 1235 3089 history2 5 0 5 5 history2 0.5
Base Number (BN) mg KOH/g ASTM D2896 8.5 7.7 11.5 9.5	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844	100 450 3000 1150 1350 4250 limit/base >30 >158 >20 limit/base >3 >20	53 <1 801 957 934 1146 2576 current 9 10 3 current 0.3 8.3	62 <1 931 1123 1051 1208 3570 history1 4 2 <1 4 2 <1 history1 0.1 7.1	61 <1 882 1209 1011 1235 3089 history2 5 0 5 history2 0.5 10.6
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m	100 450 3000 1150 1350 4250 iimit/base >30 >158 >20 iimit/base >3 >20 >3 >20	53 <1 801 957 934 1146 2576 current 9 10 3 current 0.3 8.3 19.3	62 <1 931 1123 1051 1208 3570 history1 4 2 <1 4 2 <1 history1 0.1 7.1 20.9	61 <1 882 1209 1011 1235 3089 history2 5 0 5 history2 0.5 10.6 22.4
23:51) Rev: 1 Contact/Location: ROB CLARKF - INTCH	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	100 450 3000 1150 1350 4250 limit/base >30 >158 >20 limit/base >3 >20 >30 >30 limit/base	53 <1 801 957 934 1146 2576 current 9 10 3 current 0.3 8.3 19.3 current	62 <1 931 1123 1051 1208 3570 history1 4 2 <1 4 2 <1 0.1 7.1 20.9 history1	61 <1 882 1209 1011 1235 3089 history2 5 0 5 history2 0.5 10.6 22.4 history2
	Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7414	100 450 3000 1150 1350 4250 imit/base >30 >158 >20 imit/base >3 >20 s3 >20 imit/base >3 >20	53 <1 801 957 934 1146 2576 current 9 10 3 current 0.3 8.3 19.3 current 15.1	62 <1 931 1123 1051 1208 3570 history1 4 2 <1 4 2 <1 0.1 7.1 20.9 history1 15.7	61 <1 882 1209 1011 1235 3089 history2 5 0 5 history2 0.5 10.6 22.4 history2 17.8

limit/base

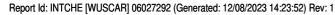


OIL ANALYSIS REPORT





als	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
/19 /20 /22		scalar	*Visual	NORML	NORML	NORML	NORML
Jun10/19 Mar25/20 Sep6/22	Appearance Odor	scalar	*Visual	NORML	NORML	NORML	NORML
, _	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
	Free Water	scalar	*Visual	20.L	NEG	NEG	NEG
				11 11 11			
	FLUID PROPER		method	limit/base	current	history1	history2
	Visc @ 100°C	cSt	ASTM D445	14.4	13.6	14.1	13.6
	GRAPHS						
	Iron (ppm)			80	Lead (ppm)		
20 - 21 - 22 - 22 - 22 - 22 - 22 - 22 -	0				-		
Jun 10/19 Mar25/20 Mar25/21 Sep6/22	150 - Abnormal			60	Ahnormal		
5 2 2	<u>E</u> 100 -			틢 40			
С	50 -			20	D		
	0						
	Feb10/16 Sep30/17 May5/18	0/19 - 5/20 -	Mar25/21 -	Dec6/23 -	0/16 -	0/19 -	Mar25/21 - Sep6/22 - Dec6/23 -
	Feb 10/16 Sep 30/17 May5/18	Jun 10/19 Mar25/20	Mar25/21 Sep6/22	Dec	Feb10/16 Sep30/17 May5/18	Jun 10/19 Mar25/20	Mar25/21 Sep6/22 Dec6/23
\sim	Aluminum (ppm)				Chromium (pp		
YYY	50 Severe				T::-:-:-:-		
	40 -				Severe		
	g ³⁰ Abnormal			е ⁶	6		
Jun 10/19 Mar25/20 Mar25/21 Sep6/22	E ³⁰ Abnormal			und d	Abnormal		
Jun' Mar	10	/					
	0			<u> </u>			
	Feb 10/16 Sep 30/17 May5/18	Jun 10/19 Mar25/20	Mar25/21 Sep6/22	Dec6/23	Feb10/16 - Sep30/17 - Sep30/17 - May5/18 -	Jun 10/19 Mar25/20	Mar25/21 Sep6/22 Dec6/23
		Jun Mar	Ma	De		Jun Mar	Ma Se De
	Copper (ppm)			50	Silicon (ppm)		
	250 -			40			
	200 Severe			_ 30	Abnormal		
	톱 150 - 무			E 30			
	100 - Abhormal 50 -			10			
	0						\sim
	Feb 10/16 Sep 30/17 May5/18	Jun 10/19 Mar25/20	Mar25/21 Sep6/22	Dec6/23	Feb10/16 - Sep30/17 - May5/18 -	Jun 10/19 . Mar25/20 .	Mar25/21 Sep6/22 Dec6/23
	Sep	Jun Mar	Mar	De	Sep.	Jun j Mar	Ser
	Viscosity @ 100°	C			Base Number		
	Abnormal				Abnormal		
	16-						\wedge
	Base 114- Abnormal	\sim	~	er (m	Base		
	න් Abnormal				Abnormal		
				Base Number (mg KOH/g)			
		719	721+)	719	/21- /22 - 23 -
	Feb 10/16 Sep 30/17 May5/18	Jun 10/19 Mar25/20	Mar25/21 Sep6/22	Dec6/23	Feb10/16 Sep30/17 May5/18	Jun 10/19 Mar25/20	Mar25/21 Sep6/22 Dec6/23
Laboratory Sample No Lab Number Unique Num Certificate L2367 To discuss this sample repo	. : WC0871028 er : 06027292 ber : 10777083 ige : MOB 1 (Additional ort, contact Customer Serv	Received Diagnos Diagnos Tests: TE vice at 1-8	d : 07 sed : 08 tician : Dor BN) 800-237-136	Dec 2023 Dec 2023 n Baldridge 9.	3 INT	89 BLAC Contac	ASTE-CHESTER K MEADOW RD CHESTER, NY US 10918 t: ROB CLARKE rstatewaste.com
* - Denotes test methods th Statements of conformity to s					JCGM 106:2012)	F	T: -: (845)572-3301



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Contact/Location: ROB CLARKE - INTCHE