

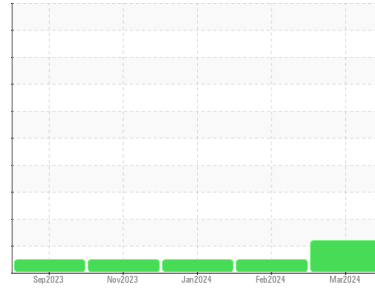
# OIL ANALYSIS REPORT

Sample Rating Trend

**DEGRADATION**



Machine Id  
**2124**  
 Component  
**Natural Gas Engine**  
 Fluid  
**LO-ASH ENGINE OIL SAE 40 (--- GAL)**



## DIAGNOSIS

### Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

Fuel content negligible. 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 AN level is at the top-end of the recommended limit.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0111215</b>	PCA0111224	PCA0111226
Sample Date	Client Info	<b>07 Mar 2024</b>	09 Feb 2024	12 Jan 2024
Machine Age	hrs	<b>98650</b>	98003	97405
Oil Age	hrs	<b>5488</b>	4841	4243
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	<b>5</b>	4	4
Chromium	ppm ASTM D5185m >4	<b>&lt;1</b>	0	<1
Nickel	ppm ASTM D5185m >2	<b>0</b>	<1	0
Titanium	ppm ASTM D5185m	<b>0</b>	0	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >9	<b>2</b>	2	2
Lead	ppm ASTM D5185m >30	<b>4</b>	2	<1
Copper	ppm ASTM D5185m >35	<b>2</b>	2	2
Tin	ppm ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 37	<b>8</b>	8	9
Barium	ppm ASTM D5185m 12	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 200	<b>10</b>	8	11
Manganese	ppm ASTM D5185m	<b>0</b>	<1	0
Magnesium	ppm ASTM D5185m 5	<b>34</b>	36	33
Calcium	ppm ASTM D5185m 1600	<b>1454</b>	1405	1465
Phosphorus	ppm ASTM D5185m 300	<b>314</b>	299	315
Zinc	ppm ASTM D5185m 400	<b>440</b>	421	410
Sulfur	ppm ASTM D5185m 2600	<b>2640</b>	2354	2444

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	<b>2</b>	2	2
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	1	2
Potassium	ppm ASTM D5185m >20	<b>1</b>	<1	0
Fuel	% ASTM D3524 >4.0	<b>0.3</b>	0.2	0.1

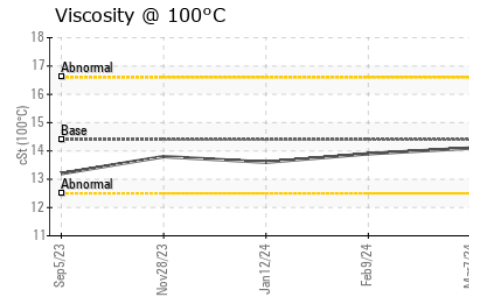
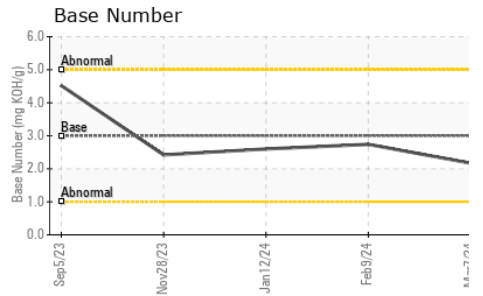
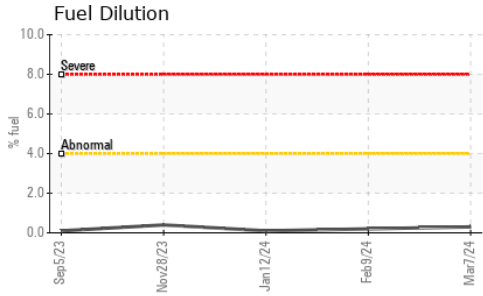
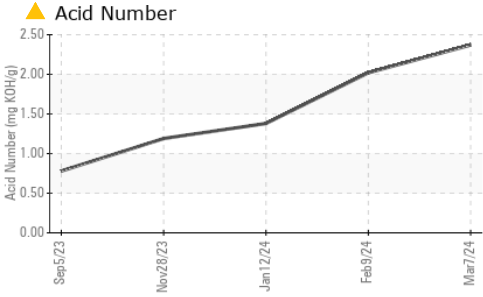
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0</b>	0	0
Nitration	Abs/cm *ASTM D7624 >20	<b>7.2</b>	6.6	5.9
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>20.9</b>	19.9	19.1

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>18.6</b>	16.6	15.1
Acid Number (AN)	mg KOH/g ASTM D8045	<b>2.37</b>	2.02	1.38
Base Number (BN)	mg KOH/g ASTM D2896 3.0	<b>2.17</b>	2.74	2.60

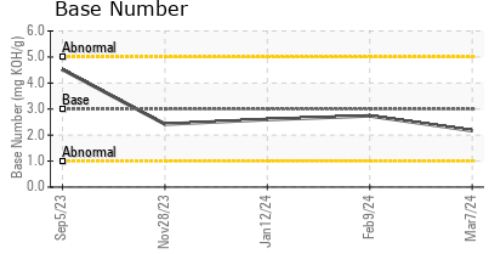
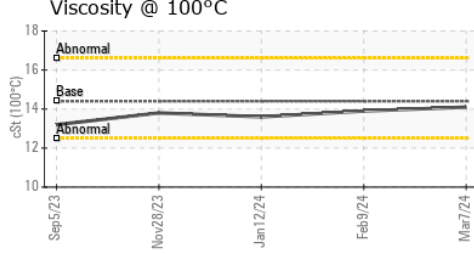
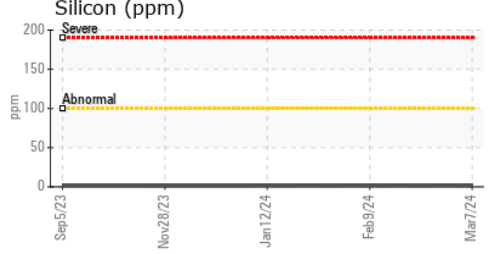
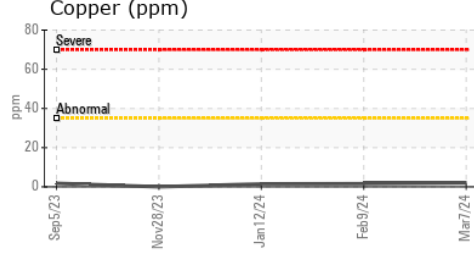
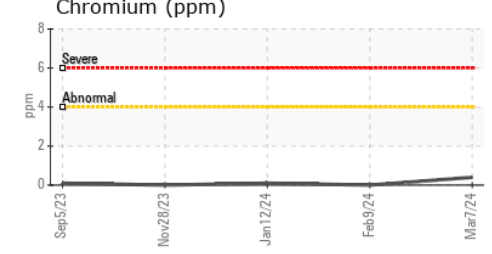
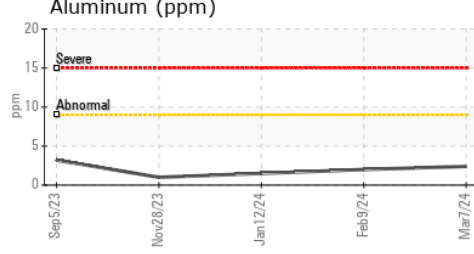
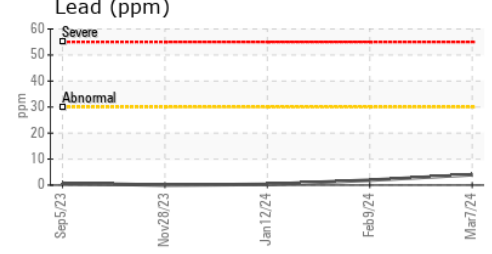
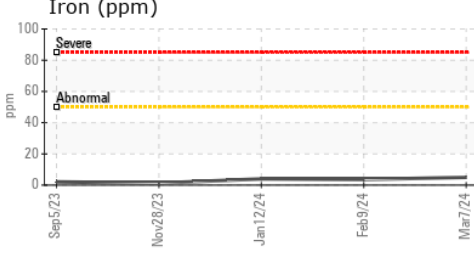
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.1	13.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111215 **Received** : 15 Mar 2024  
**Lab Number** : 06119727 **Tested** : 18 Mar 2024  
**Unique Number** : 10928560 **Diagnosed** : 19 Mar 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, PercentFuel )

**USA COMPRESSION**  
 375 S MAIN STREET  
 MANSFIELD, PA  
 US 16933  
 Contact: JASON KUZNESKI  
 jkuzneski@usacompression.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)