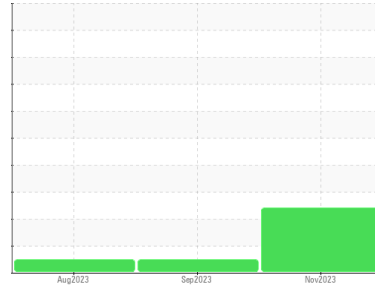


# OIL ANALYSIS REPORT

Sample Rating Trend



**DEGRADATION**



Machine Id  
**2086**  
 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 level is low. 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>PCA0111222</b>	PCA0099789	PCA0099780
Sample Date	Client Info			<b>28 Nov 2023</b>	05 Sep 2023	04 Aug 2023
Machine Age	hrs	Client Info		<b>68690</b>	66696	65922
Oil Age	hrs	Client Info		<b>4949</b>	2455	2181
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>	5	4
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	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>&lt;1</b>	3	0
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>35	<b>4</b>	6	3
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

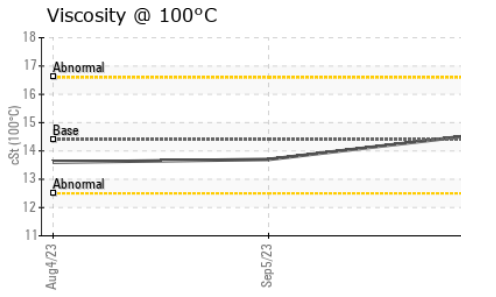
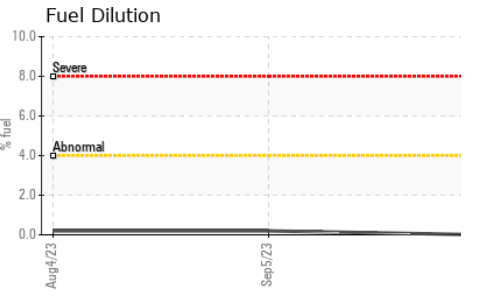
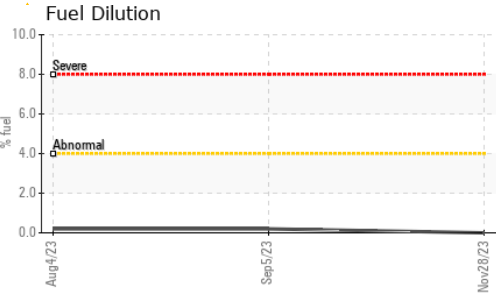
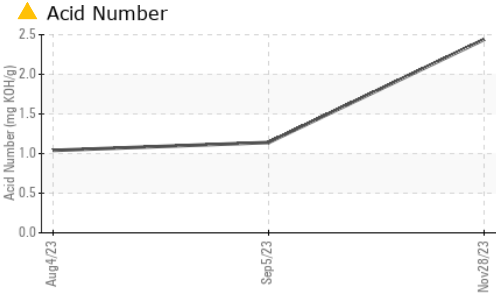
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	<b>&lt;1</b>	<1	1
Barium	ppm	ASTM D5185m	12	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	200	<b>3</b>	6	4
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	5	<b>13</b>	11	12
Calcium	ppm	ASTM D5185m	1600	<b>1418</b>	1377	1404
Phosphorus	ppm	ASTM D5185m	300	<b>295</b>	285	296
Zinc	ppm	ASTM D5185m	400	<b>400</b>	341	371
Sulfur	ppm	ASTM D5185m	2600	<b>2457</b>	2607	2736

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	<b>2</b>	3	1
Sodium	ppm	ASTM D5185m		<b>2</b>	6	4
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Fuel	%	ASTM D3524	>4.0	<b>0.0</b>	0.2	0.2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.6</b>	5.3	4.9
Sulfation	Abs.1mm	*ASTM D7415	>30	<b>21.2</b>	16.4	15.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs.1mm	*ASTM D7414	>25	<b>19.0</b>	11.4	10.3
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>2.44</b>	1.14	1.04
Base Number (BN)	mg KOH/g	ASTM D2896	3.0	<b>1.99</b>	3.18	3.58

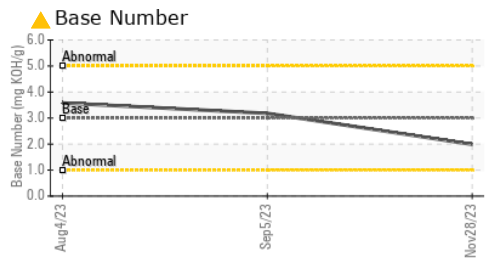
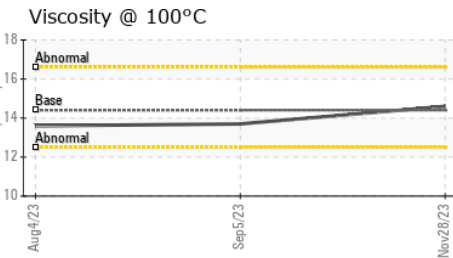
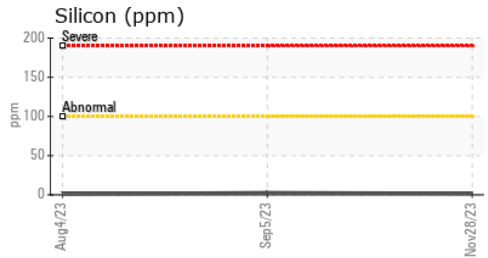
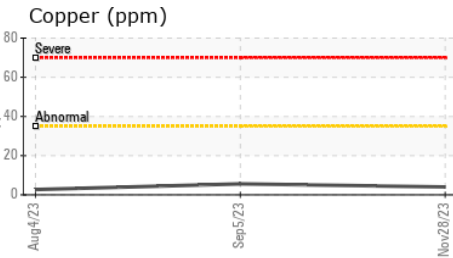
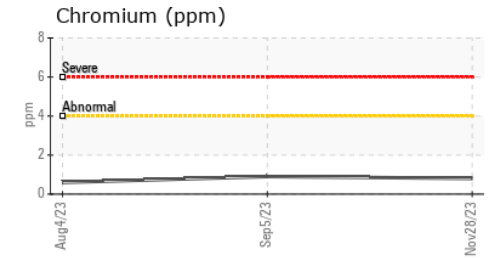
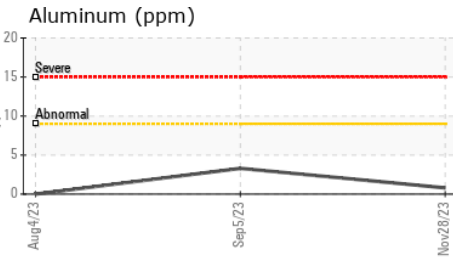
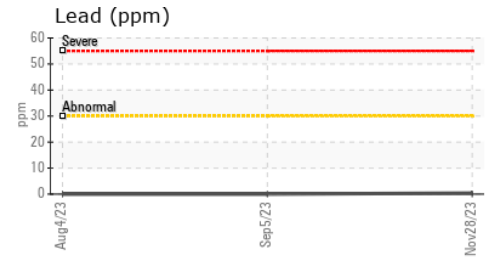
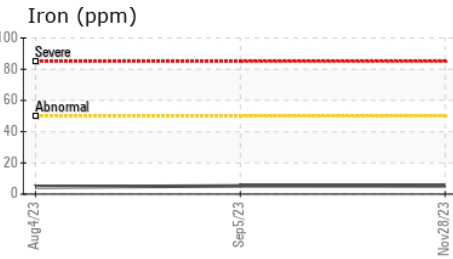
# OIL ANALYSIS REPORT



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	14.6	13.7

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0111222 **Received** : 14 Dec 2023  
**Lab Number** : 06034732 **Diagnosed** : 19 Dec 2023  
**Unique Number** : 10789961 **Diagnostician** : Jonathan Hester  
**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)

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F: