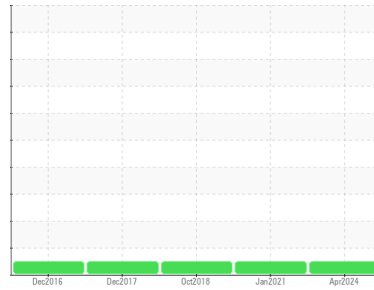




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id

**KERI LYNN (S/N E7602E/001)**

Component

**Natural Gas Engine**

Fluid

{not provided} (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>RP0026045</b>	RP0014802	RP203732
Sample Date	Client Info		<b>10 Apr 2024</b>	11 Jan 2021	01 Oct 2018
Machine Age	hrs	Client Info	<b>189</b>	163	157
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>6</b>	10	8
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>2</b>	2	2
Aluminum	ppm	ASTM D5185m >9	<b>3</b>	5	1
Lead	ppm	ASTM D5185m >30	<b>2</b>	4	2
Copper	ppm	ASTM D5185m >35	<b>38</b>	83	74
Tin	ppm	ASTM D5185m >4	<b>1</b>	2	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>5</b>	34	37
Barium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Molybdenum	ppm	ASTM D5185m	<b>152</b>	14	11
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>919</b>	9	8
Calcium	ppm	ASTM D5185m	<b>2688</b>	1557	1428
Phosphorus	ppm	ASTM D5185m	<b>328</b>	516	513
Zinc	ppm	ASTM D5185m	<b>332</b>	395	365

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	<b>12</b>	8	7
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	4	1
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	0
Water	%	ASTM D6304 >0.1	<b>NEG</b>	NEG	NEG

### INFRA-RED

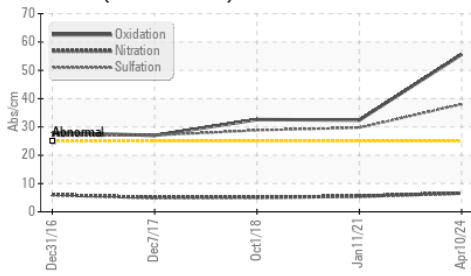
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>0.1</b>	0.1	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>6.6</b>	5.5	5.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>38.0</b>	29.7	28.8

### FLUID DEGRADATION

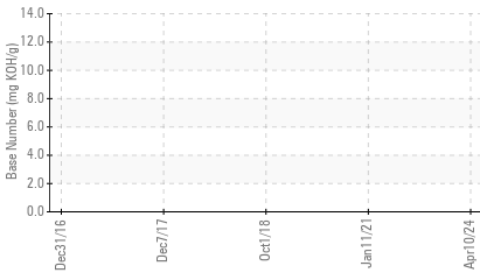
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>55.6</b>	32.4	32.6
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>---</b>	0.947	1.166
Base Number (BN)	mg KOH/g	ASTM D2896	<b>12.60</b>	---	---

# OIL ANALYSIS REPORT

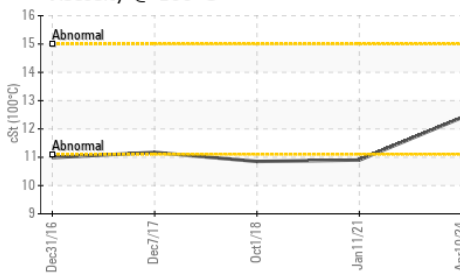
FT-IR (Direct Trend)



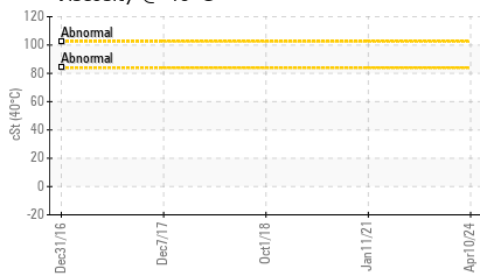
Base Number



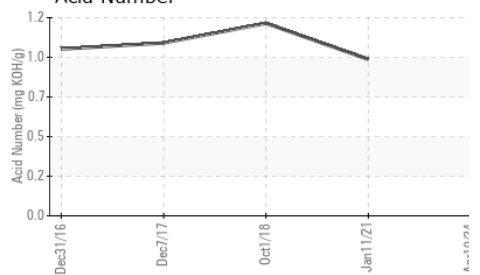
Viscosity @ 100°C



Viscosity @ 40°C



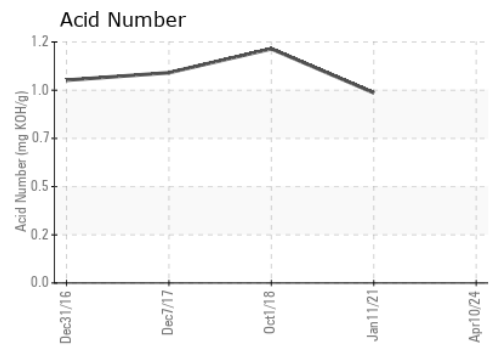
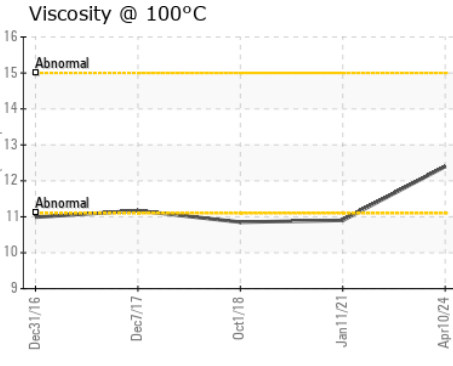
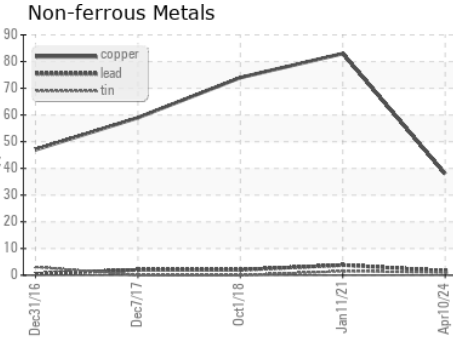
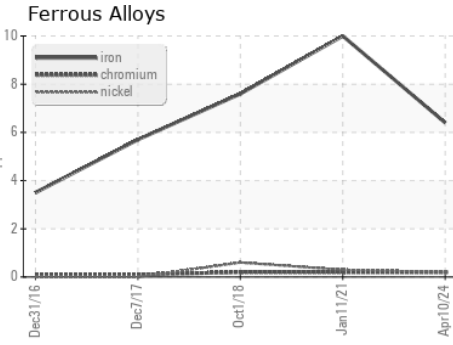
Acid Number



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	12.4	10.9	10.85

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0026045 **Received** : 14 May 2024  
**Lab Number** : 06179526 **Tested** : 17 May 2024  
**Unique Number** : 11030852 **Diagnosed** : 17 May 2024 - Sean Felton  
**Test Package** : IND 2 ( Additional Tests: FT-IR, KV100, TBN )

**WARWICK SEWER AUTHORITY**  
 125 ARTHUR DEVINE BLVD  
 WARWICK, RI 02888  
 Contact: JOHN BROSNAHAN  
 john.s.brosnahan@warwickri.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)