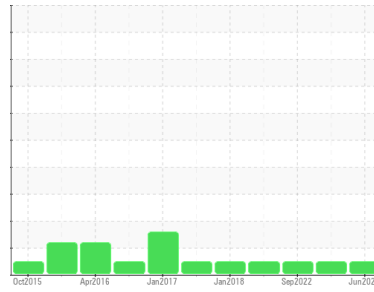




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

[PMIAS3429607]

Machine Id

GENERAC GENERATOR 15056420200 7847981 - PFVFD-CO2

Component

Diesel Engine

Fluid

DIESEL ENGINE OIL SAE 15W40 (6 QTS)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>DC0035220</b>	DC0028825	DC0023202
Sample Date	Client Info	<b>13 Jun 2024</b>	11 May 2023	05 Sep 2022
Machine Age	hrs	<b>144</b>	136	131
Oil Age	hrs	<b>0</b>	1	0
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >100	<b>2</b>	1	2
Chromium	ppm	ASTM D5185m >20	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	0	1
Lead	ppm	ASTM D5185m >40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >330	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185m >15	<b>0</b>	0	1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 250	<b>140</b>	199	162
Barium	ppm	ASTM D5185m 10	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m 100	<b>40</b>	64	36
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 450	<b>741</b>	511	570
Calcium	ppm	ASTM D5185m 3000	<b>868</b>	1150	746
Phosphorus	ppm	ASTM D5185m 1150	<b>657</b>	660	525
Zinc	ppm	ASTM D5185m 1350	<b>773</b>	778	639
Sulfur	ppm	ASTM D5185m 4250	<b>3074</b>	3105	2199

## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	<b>14</b>	11	10
Sodium	ppm	ASTM D5185m >158	<b>2</b>	3	4
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	4
Fuel	%	ASTM D3524 >5	<b>&lt;1.0</b>	<1.0	<1.0

## INFRA-RED

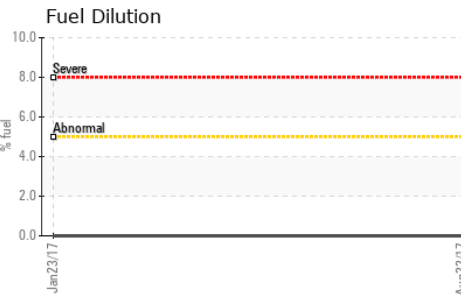
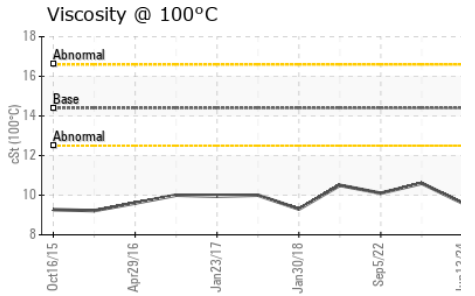
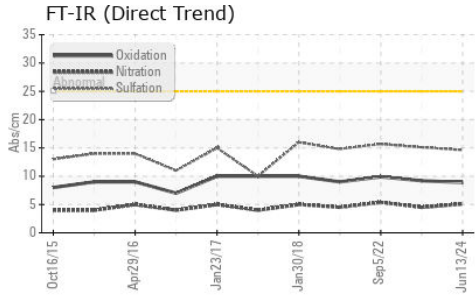
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >3	<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624 >20	<b>5.1</b>	4.5	5.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>14.6</b>	15.1	15.7

## FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>8.9</b>	9.2	9.9
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	<b>6.8</b>	7.0	7.8



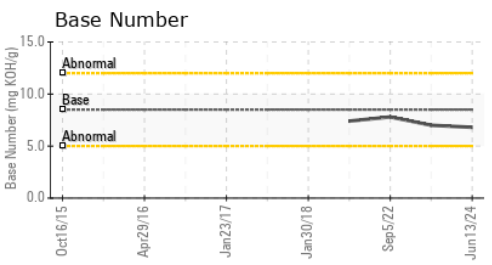
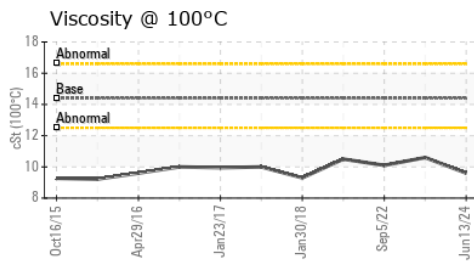
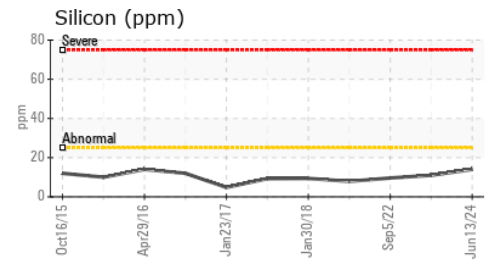
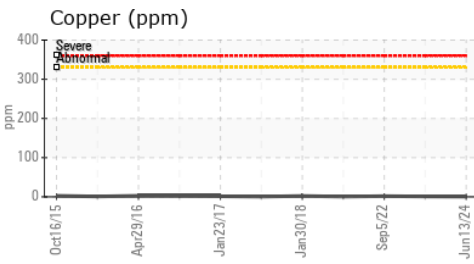
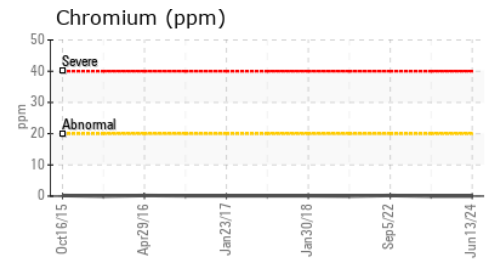
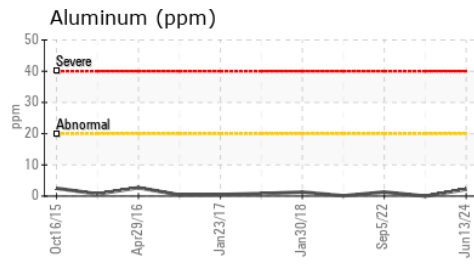
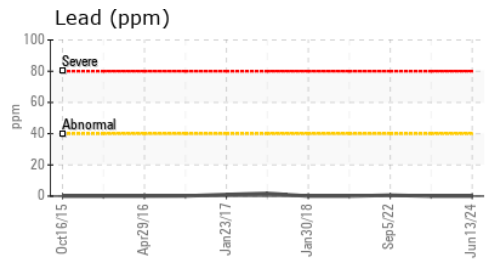
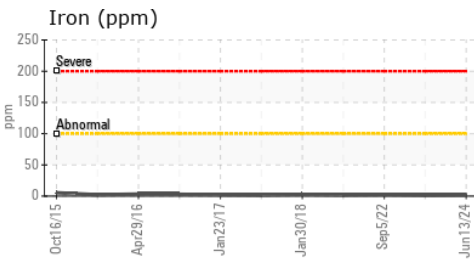
# OIL ANALYSIS REPORT



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	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	9.6	10.6

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0035220 **Received** : 25 Jun 2024  
**Lab Number** : 06219365 **Tested** : 26 Jun 2024  
**Unique Number** : 11097562 **Diagnosed** : 26 Jun 2024 - Jonathan Hester  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, TBN )

**KELLY GENERATOR & EQUIPMENT INC**  
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 OWINGS, MD  
 US 20736  
 Contact: LESLIE SCAGGS  
 lscaggs@kge.com  
 T: (410)257-5225  
 F: (410)257-2588

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)