



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**[3238470]**

Machine Id  
**GENERAC GENERATOR 2592960200 4008413 - DUNKIRK VFD (S/N 2068816)**

Component  
**Propane Engine**  
Fluid  
**SAE 5W30 (6 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0034992</b>	DC0029902	DC0026726
Sample Date		Client Info		<b>28 Mar 2024</b>	08 Aug 2023	10 May 2023
Machine Age	hrs	Client Info		<b>405</b>	396	392
Oil Age	hrs	Client Info		<b>0</b>	3	0
Filter Age	hrs	Client Info		<b>0</b>	3	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>1</b>	<1	2
Chromium	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	<1	0
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>35	<b>3</b>	<1	0
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

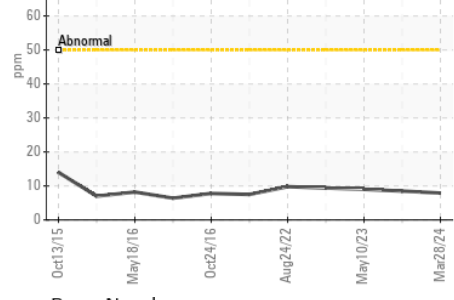
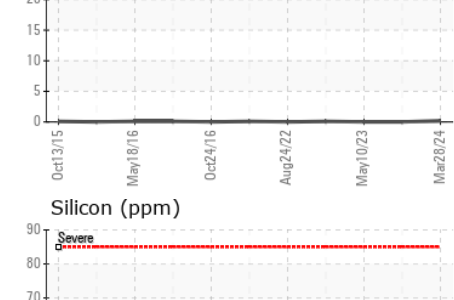
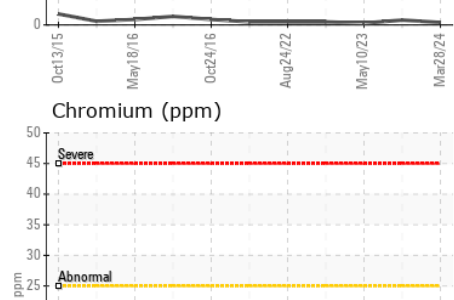
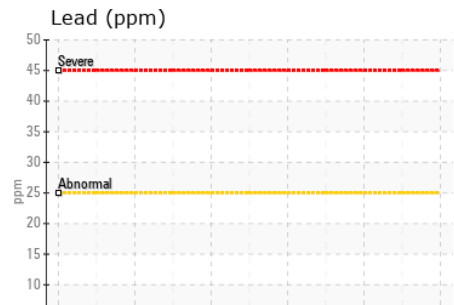
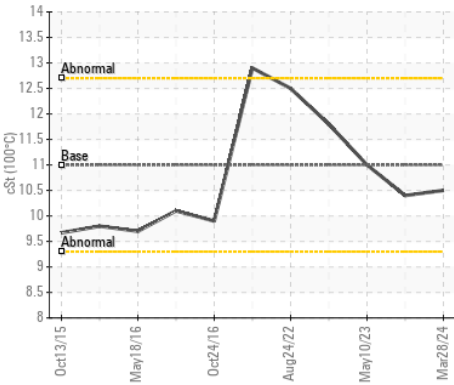
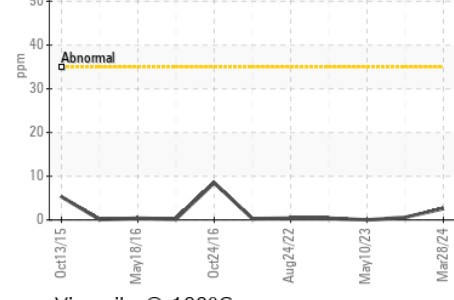
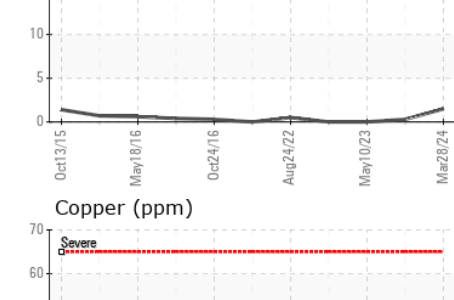
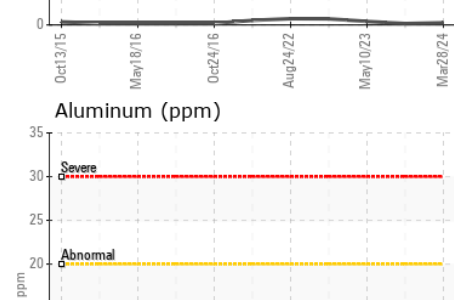
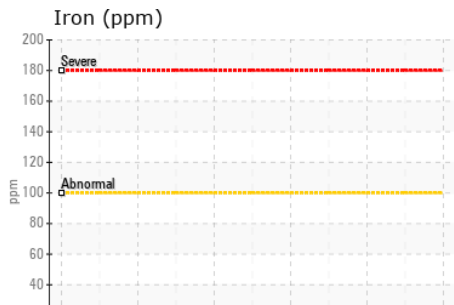
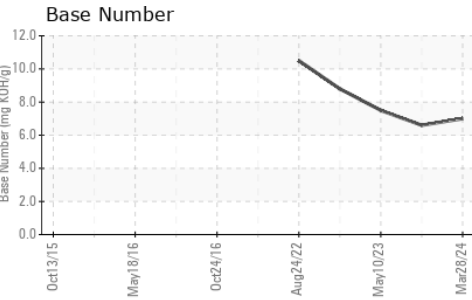
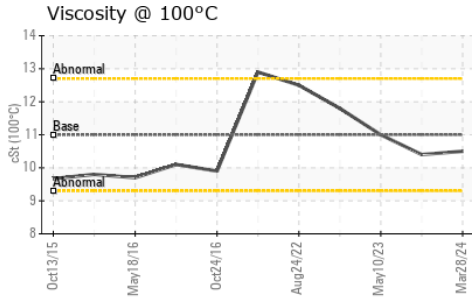
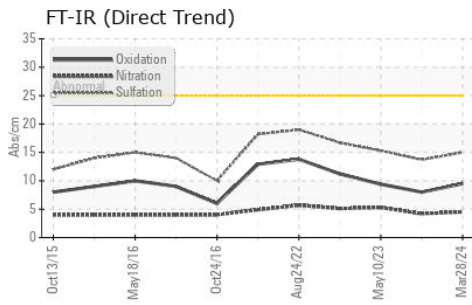
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>8</b>	8	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.5</b>	4.2	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>15.0</b>	13.7	15.3
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## 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.

Sodium	ppm	ASTM D5185m		<b>6</b>	3	4
Boron	ppm	ASTM D5185m		<b>182</b>	228	183
Barium	ppm	ASTM D5185m		<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>70</b>	67	71
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>556</b>	544	555
Calcium	ppm	ASTM D5185m		<b>1273</b>	1254	1220
Phosphorus	ppm	ASTM D5185m		<b>826</b>	687	739
Zinc	ppm	ASTM D5185m		<b>892</b>	811	884
Sulfur	ppm	ASTM D5185m		<b>3145</b>	3413	3493
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>9.5</b>	8.0	9.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.0</b>	6.6	7.5
Visc @ 100°C	cSt	ASTM D445	11.0	<b>10.5</b>	10.4	11.0



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0034992  
**Lab Number** : 06151831  
**Unique Number** : 10981909  
**Test Package** : MOB 1  
**Received** : 17 Apr 2024  
**Tested** : 18 Apr 2024  
**Diagnosed** : 19 Apr 2024 - Don Baldrige

**KELLY GENERATOR & EQUIPMENT INC**  
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Certificate L2367  
 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)